

Pantheon Report

Generated at 2017-08-17 03:53:00 (UTC).

Data path: GCE Tokyo Ethernet (*remote*) → GCE Sydney Ethernet (*local*).

Repeated the test of 15 congestion control schemes 10 times.

Each test lasted for 30 seconds running 1 flow.

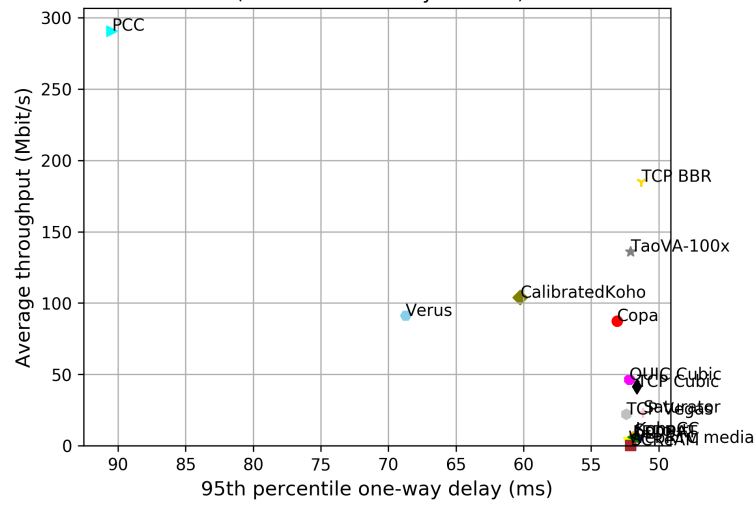
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

Tested BBR with qdisc of Fair Queuing (**fq**), and other schemes with the default Linux qdisc (**pfifo_fast**).

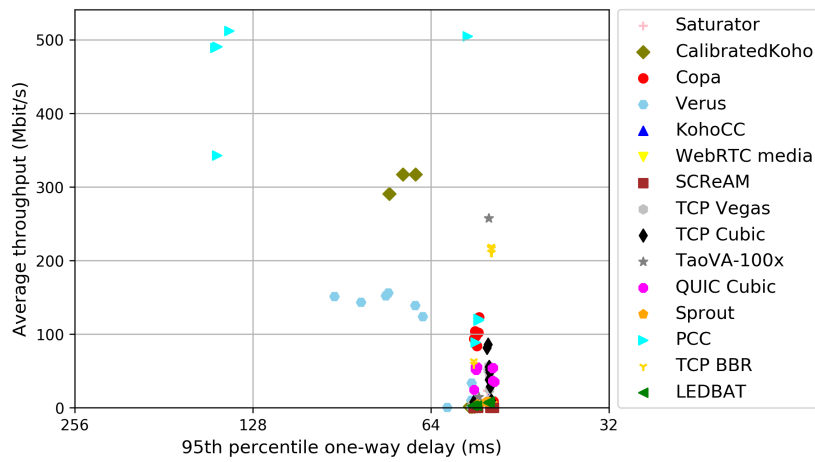
Git summary:

```
branch: master @ e43be7582298d552838afcf6382342bf187fbbd6
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
  M datagrump/sender.cc
third_party/genericCC @ dae96123232f1bcb37725348fa2378691ce26725
third_party/koho_cc @ f0f2e693303aee82ea808e6928eac4f1083a6681
  M datagrump/sender.cc
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-stimuli @ fc73a85ca16c34366d1888dc8a0d0d88d4ebf2a7
third_party/pantheon-tunnel @ baf443516dea3eeddeccaf9b916cc313273ca4f4
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
  M receiver/src/buffer.h
  M receiver/src/core.cpp
  M sender/src/buffer.h
  M sender/src/core.cpp
third_party/proto-quick @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream @ c3370fd7bd17265a79aeb34e4016ad23f5965885
third_party/sourdough @ f1a14bffe749737437f61b1eaaeb30b267cde681
third_party/sprout @ 6f2efe6e088d91066a9f023df375eee2665089ce
  M src/examples/cellsim.cc
  M src/examples/sproutbt2.cc
  M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
  M src/verus.hpp
  M tools/plot.py
third_party/webRTC @ a488197ddd041ace68a42849b2540ad834825f42
```

test from GCE Tokyo Ethernet to GCE Sydney Ethernet, 10 runs of 30s each per scheme
(mean of all runs by scheme)



test from GCE Tokyo Ethernet to GCE Sydney Ethernet, 10 runs of 30s each per scheme



scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	10	184.97	51.31	1.98
CalibratedKoho	9	103.94	60.26	46.68
Copa	7	87.53	53.09	13.13
TCP Cubic	10	41.46	51.63	1.17
KohoCC	10	8.17	51.73	29.02
LEDBAT	10	5.99	51.93	2.22
PCC	10	290.65	90.45	4.72
QUIC Cubic	9	46.42	52.20	0.52
Saturator	9	23.22	51.17	0.46
SCReAM	10	0.21	52.09	0.34
Sprout	8	7.01	51.82	4.58
TaoVA-100x	2	136.09	52.09	4.76
TCP Vegas	10	22.09	52.43	1.24
Verus	10	91.16	68.73	37.67
WebRTC media	10	2.24	52.25	0.55

Run 1: Statistics of TCP BBR

Start at: 2017-08-16 23:44:11

End at: 2017-08-16 23:44:41

Below is generated by plot.py at 2017-08-17 03:34:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 210.71 Mbit/s

95th percentile per-packet one-way delay: 50.548 ms

Loss rate: 0.39%

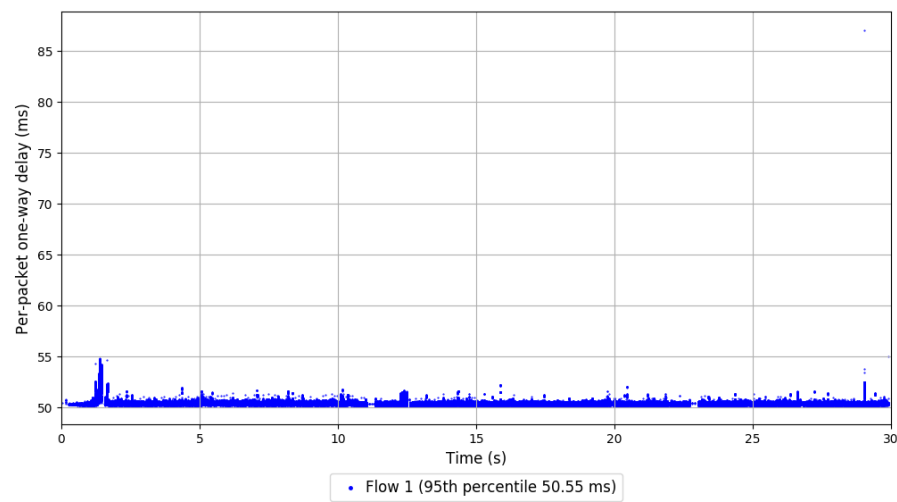
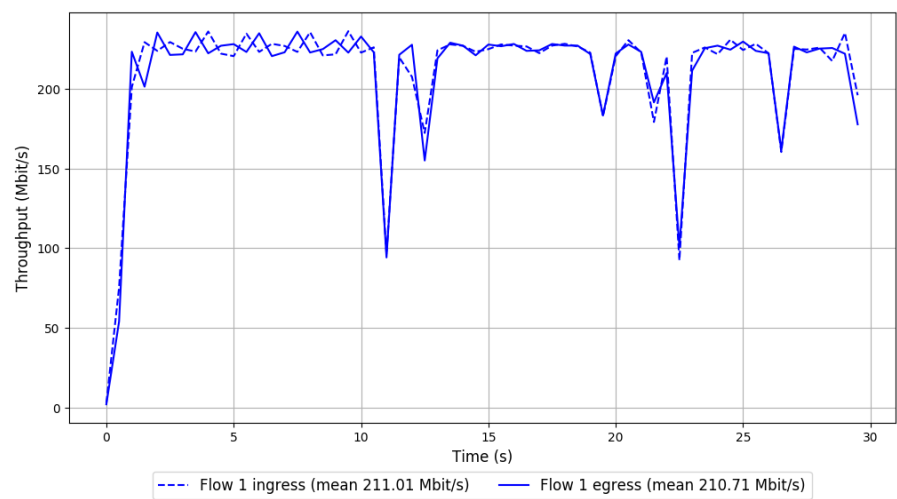
-- Flow 1:

Average throughput: 210.71 Mbit/s

95th percentile per-packet one-way delay: 50.548 ms

Loss rate: 0.39%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2017-08-16 23:54:16

End at: 2017-08-16 23:54:46

Below is generated by plot.py at 2017-08-17 03:34:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 216.06 Mbit/s

95th percentile per-packet one-way delay: 50.562 ms

Loss rate: 0.60%

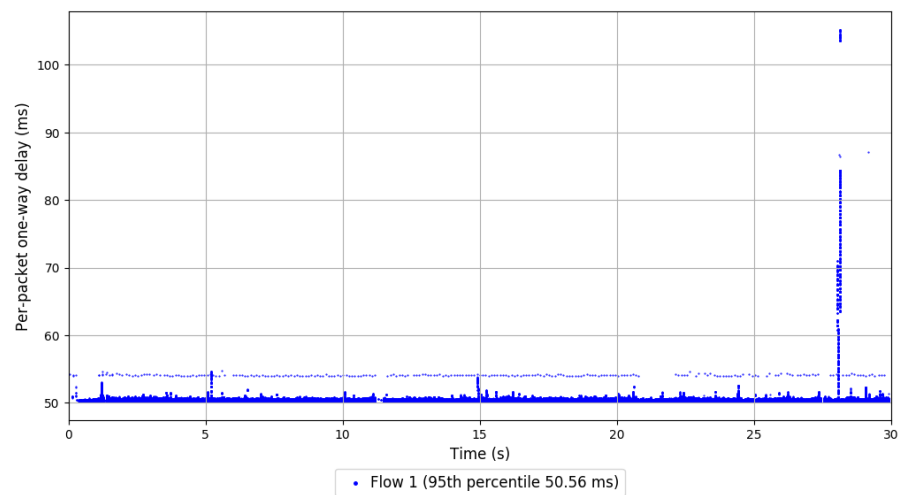
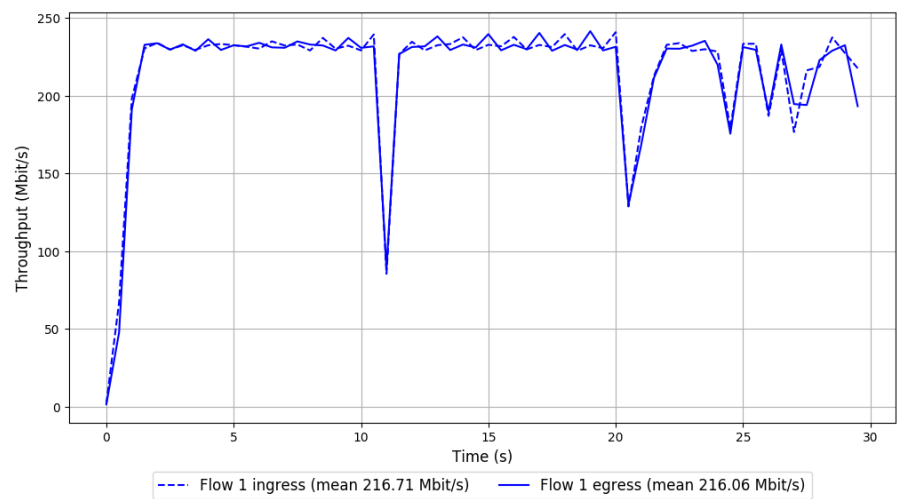
-- Flow 1:

Average throughput: 216.06 Mbit/s

95th percentile per-packet one-way delay: 50.562 ms

Loss rate: 0.60%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2017-08-17 00:04:50

End at: 2017-08-17 00:05:20

Below is generated by plot.py at 2017-08-17 03:35:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 211.07 Mbit/s

95th percentile per-packet one-way delay: 50.672 ms

Loss rate: 0.41%

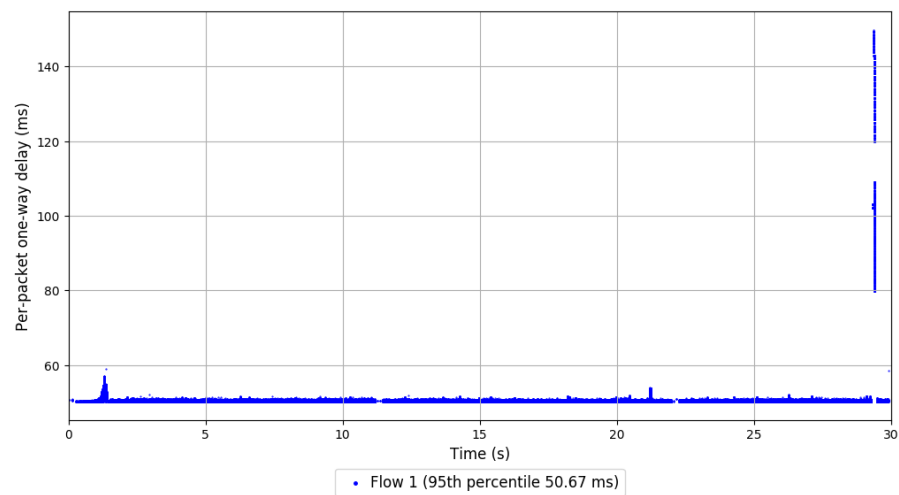
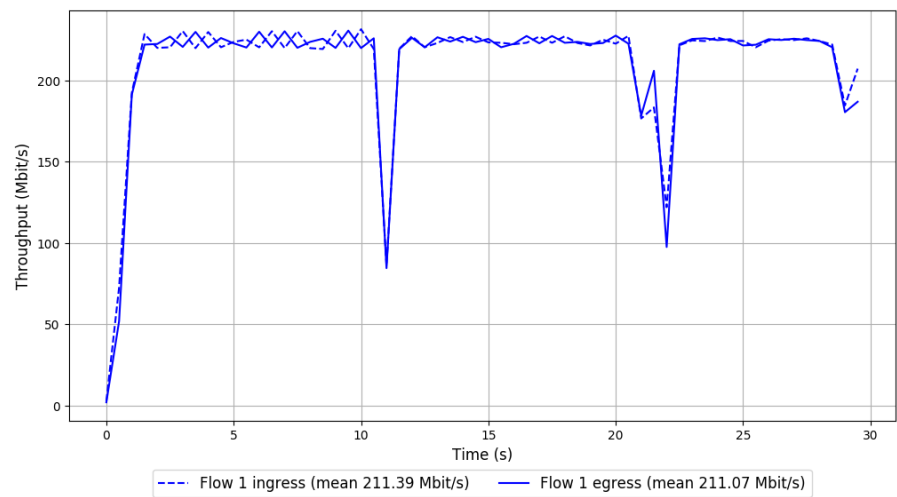
-- Flow 1:

Average throughput: 211.07 Mbit/s

95th percentile per-packet one-way delay: 50.672 ms

Loss rate: 0.41%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2017-08-17 00:15:12

End at: 2017-08-17 00:15:42

Below is generated by plot.py at 2017-08-17 03:35:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 218.82 Mbit/s

95th percentile per-packet one-way delay: 50.562 ms

Loss rate: 0.56%

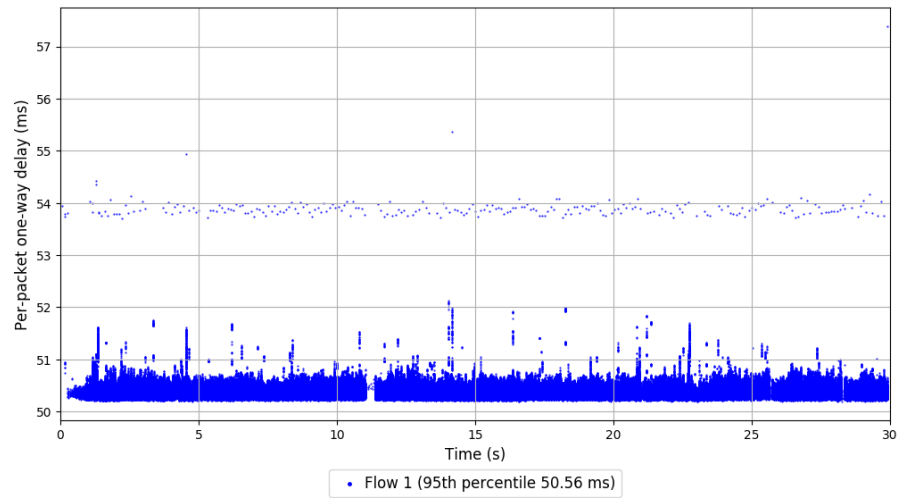
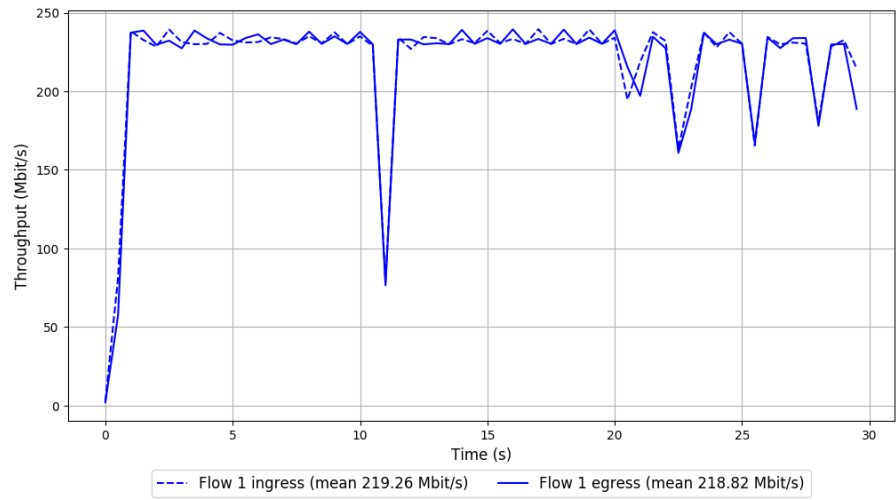
-- Flow 1:

Average throughput: 218.82 Mbit/s

95th percentile per-packet one-way delay: 50.562 ms

Loss rate: 0.56%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2017-08-17 00:25:27

End at: 2017-08-17 00:25:57

Below is generated by plot.py at 2017-08-17 03:36:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 216.14 Mbit/s

95th percentile per-packet one-way delay: 50.532 ms

Loss rate: 0.52%

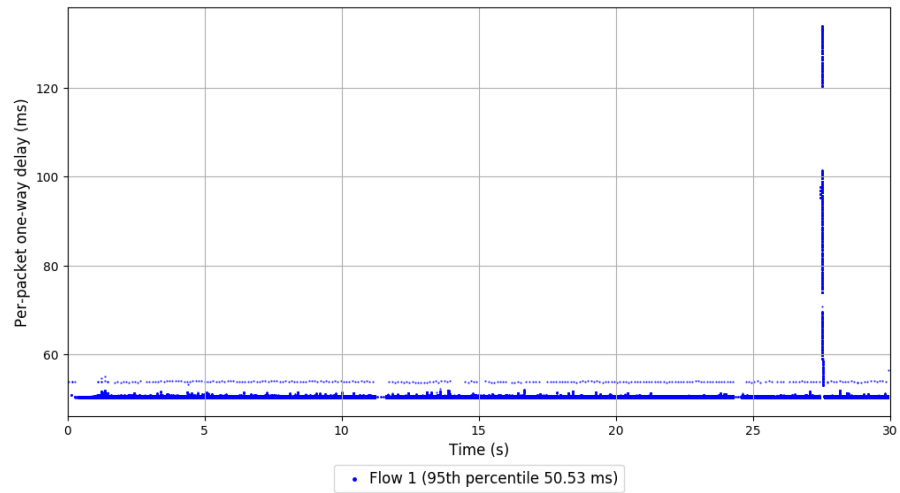
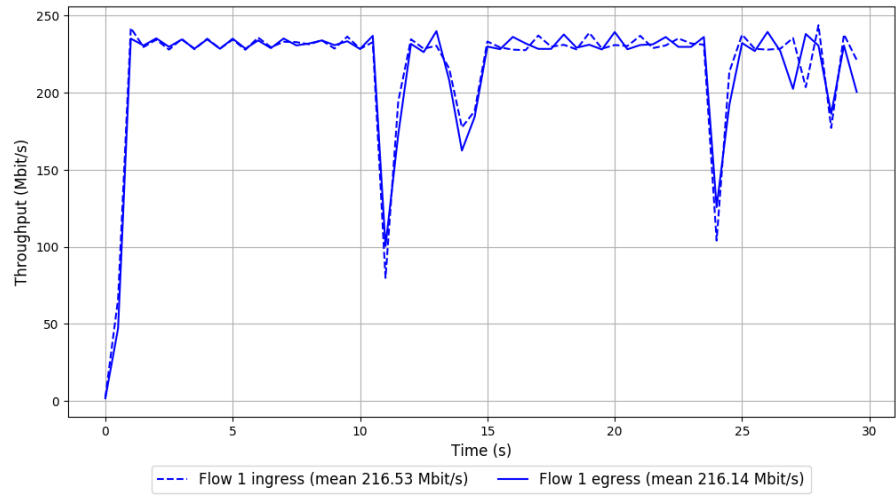
-- Flow 1:

Average throughput: 216.14 Mbit/s

95th percentile per-packet one-way delay: 50.532 ms

Loss rate: 0.52%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2017-08-17 00:35:34

End at: 2017-08-17 00:36:04

Below is generated by plot.py at 2017-08-17 03:36:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 63.71 Mbit/s

95th percentile per-packet one-way delay: 54.149 ms

Loss rate: 8.48%

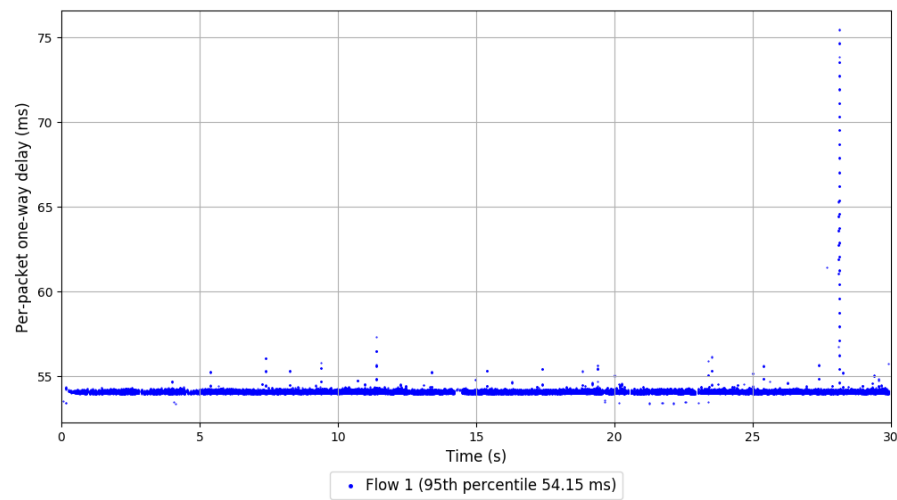
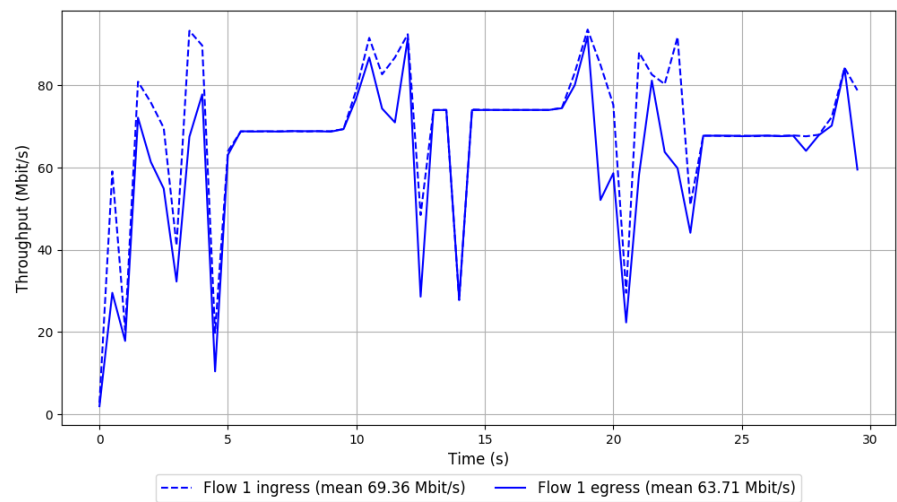
-- Flow 1:

Average throughput: 63.71 Mbit/s

95th percentile per-packet one-way delay: 54.149 ms

Loss rate: 8.48%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2017-08-17 00:45:28

End at: 2017-08-17 00:45:59

Below is generated by plot.py at 2017-08-17 03:36:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 218.12 Mbit/s

95th percentile per-packet one-way delay: 50.770 ms

Loss rate: 0.45%

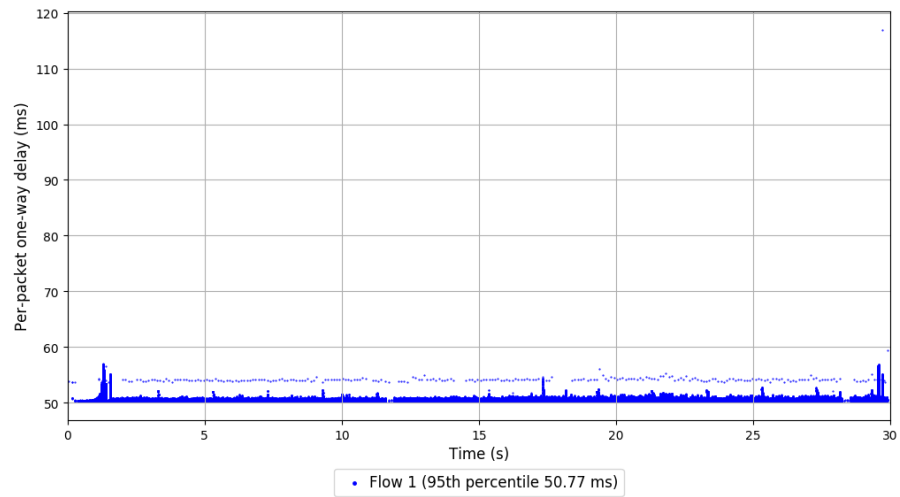
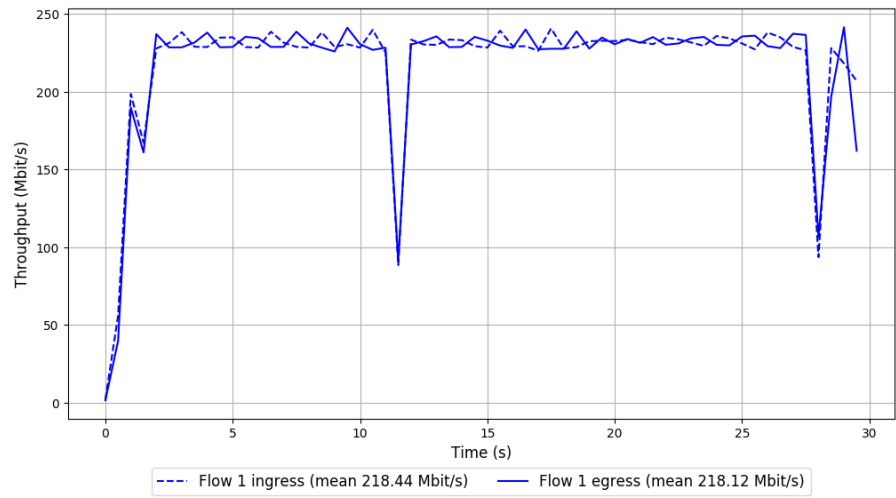
-- Flow 1:

Average throughput: 218.12 Mbit/s

95th percentile per-packet one-way delay: 50.770 ms

Loss rate: 0.45%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2017-08-17 00:55:24

End at: 2017-08-17 00:55:54

Below is generated by plot.py at 2017-08-17 03:36:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 219.09 Mbit/s

95th percentile per-packet one-way delay: 50.568 ms

Loss rate: 0.43%

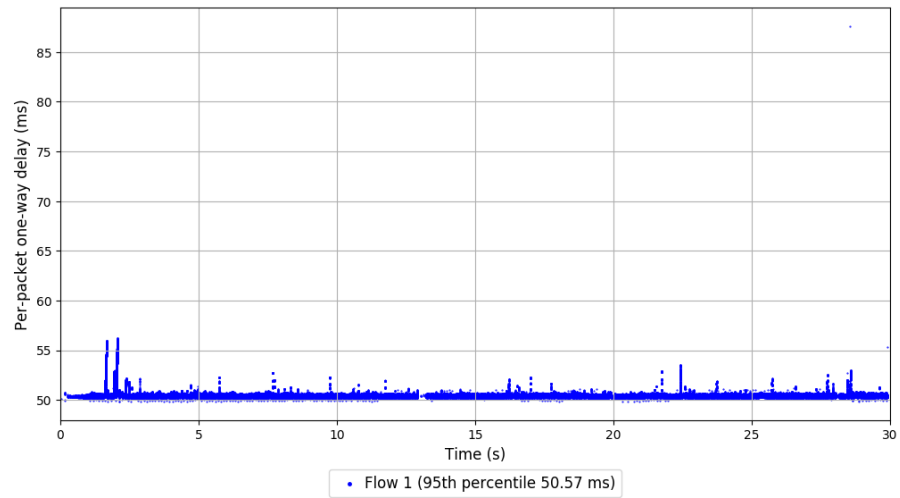
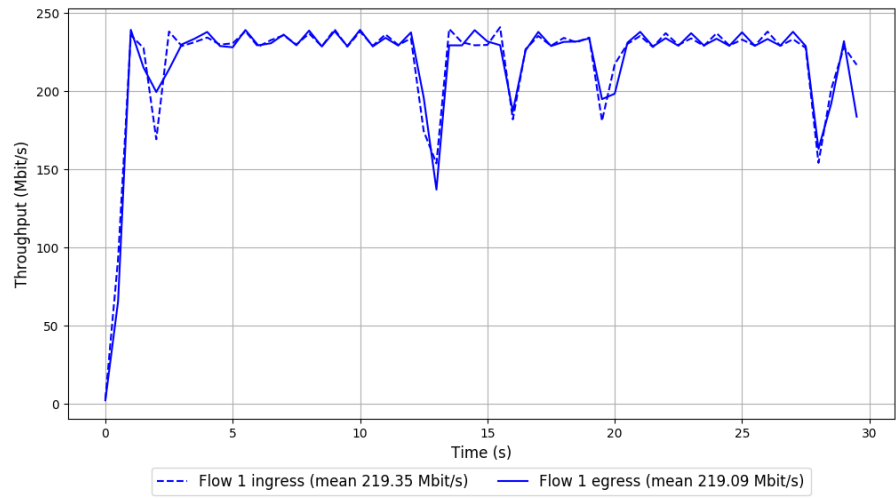
-- Flow 1:

Average throughput: 219.09 Mbit/s

95th percentile per-packet one-way delay: 50.568 ms

Loss rate: 0.43%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2017-08-17 01:05:54

End at: 2017-08-17 01:06:24

Below is generated by plot.py at 2017-08-17 03:36:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 59.02 Mbit/s

95th percentile per-packet one-way delay: 54.159 ms

Loss rate: 7.46%

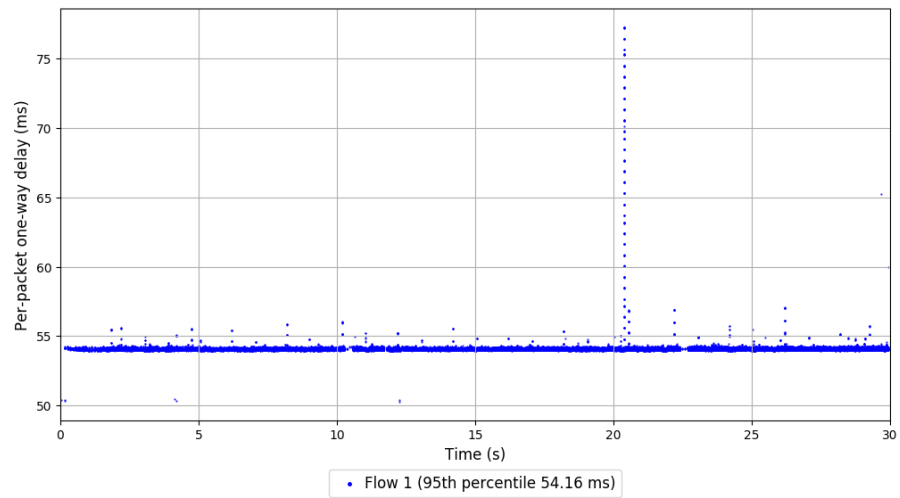
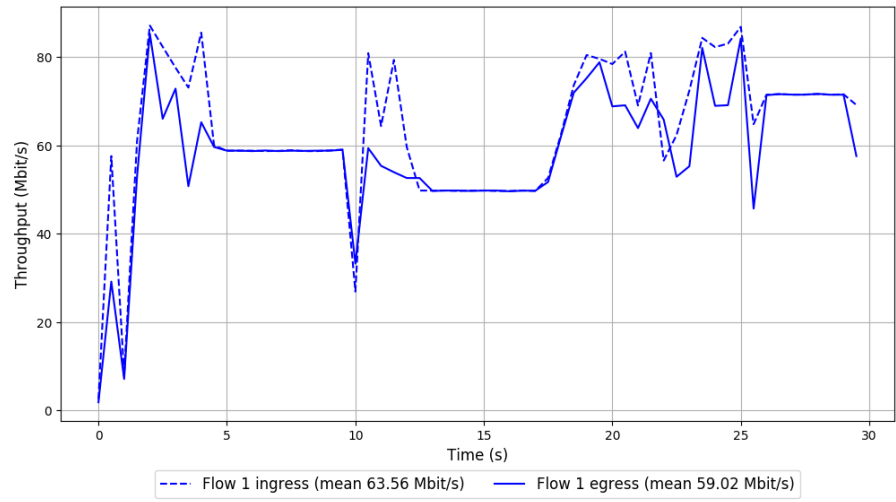
-- Flow 1:

Average throughput: 59.02 Mbit/s

95th percentile per-packet one-way delay: 54.159 ms

Loss rate: 7.46%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2017-08-17 01:16:03

End at: 2017-08-17 01:16:33

Below is generated by plot.py at 2017-08-17 03:37:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 216.99 Mbit/s

95th percentile per-packet one-way delay: 50.571 ms

Loss rate: 0.50%

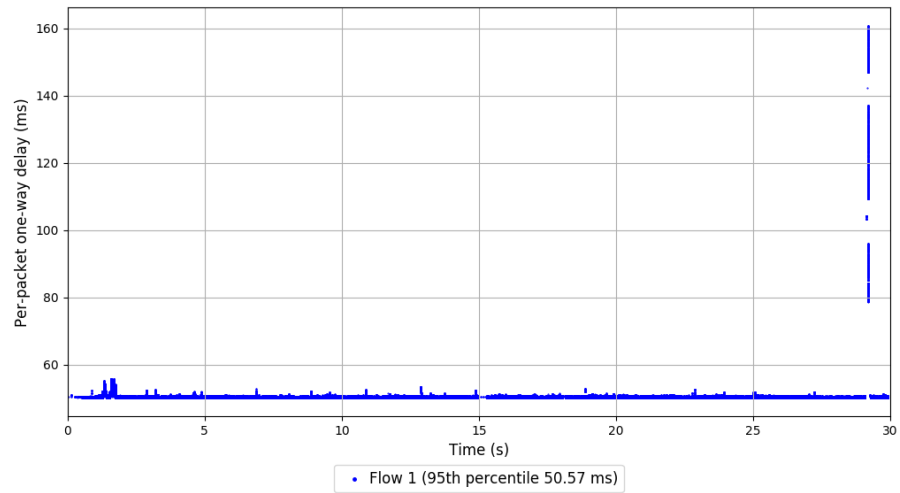
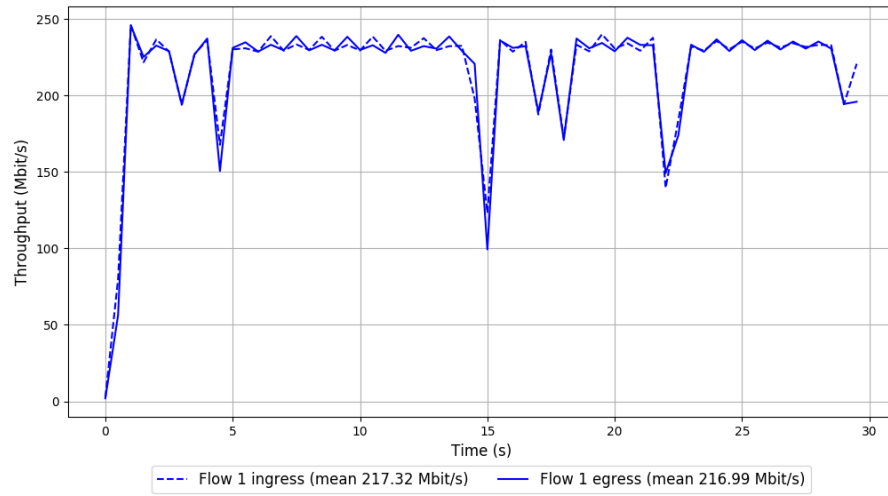
-- Flow 1:

Average throughput: 216.99 Mbit/s

95th percentile per-packet one-way delay: 50.571 ms

Loss rate: 0.50%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of CalibratedKoho

Start at: 2017-08-16 23:35:57

End at: 2017-08-16 23:36:27

Below is generated by plot.py at 2017-08-17 03:37:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.78 Mbit/s

95th percentile per-packet one-way delay: 54.617 ms

Loss rate: 69.81%

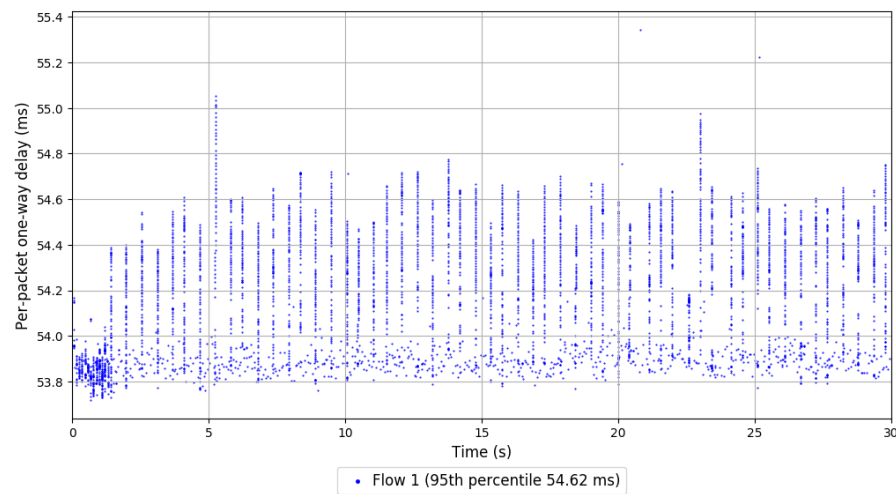
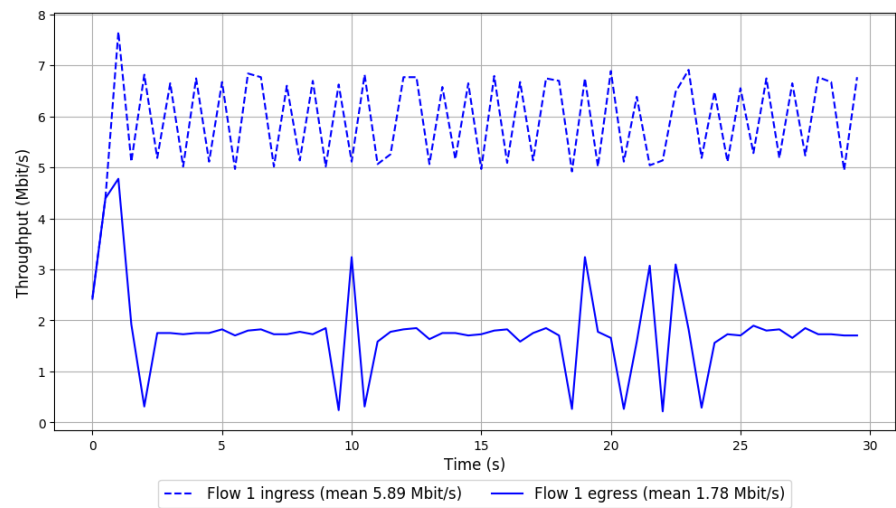
-- Flow 1:

Average throughput: 1.78 Mbit/s

95th percentile per-packet one-way delay: 54.617 ms

Loss rate: 69.81%

Run 1: Report of CalibratedKoho — Data Link



Run 2: Statistics of CalibratedKoho

Start at: 2017-08-16 23:46:15

End at: 2017-08-16 23:46:45

Below is generated by plot.py at 2017-08-17 03:37:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.77 Mbit/s

95th percentile per-packet one-way delay: 54.504 ms

Loss rate: 70.04%

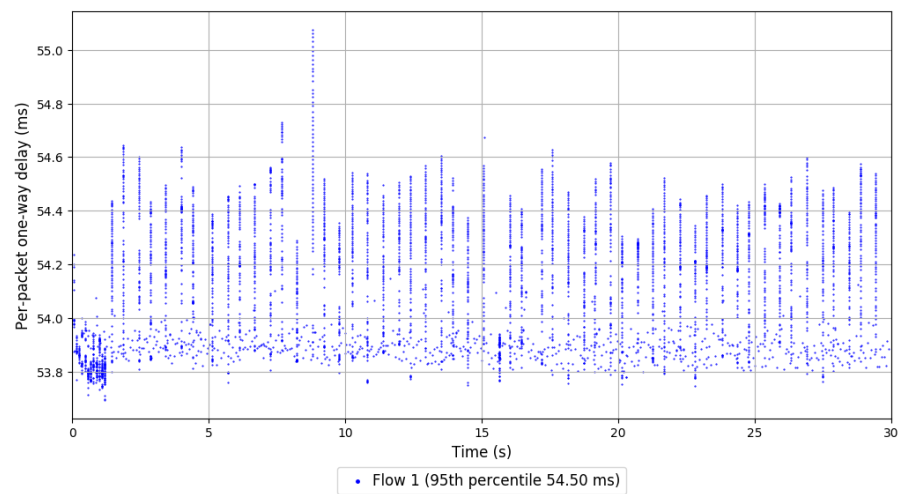
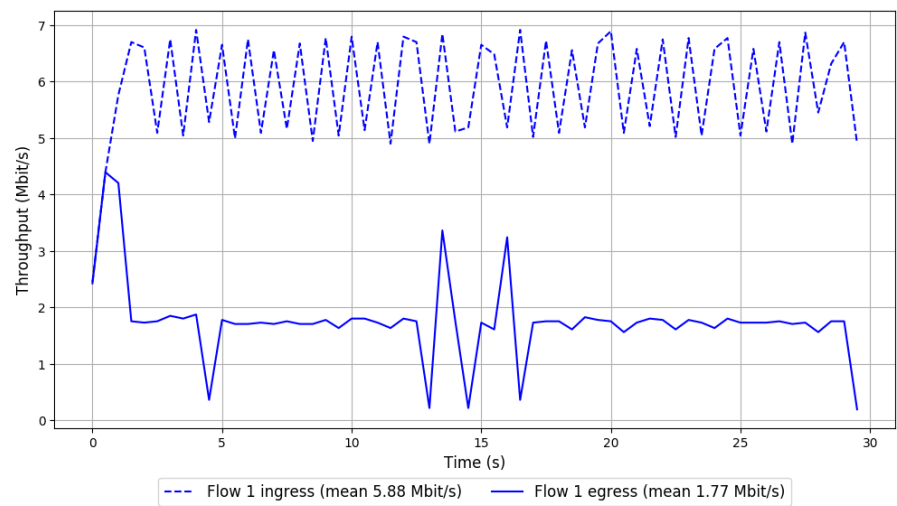
-- Flow 1:

Average throughput: 1.77 Mbit/s

95th percentile per-packet one-way delay: 54.504 ms

Loss rate: 70.04%

Run 2: Report of CalibratedKoho — Data Link



Run 3: Statistics of CalibratedKoho

Start at: 2017-08-16 23:56:38

End at: 2017-08-16 23:57:08

Below is generated by plot.py at 2017-08-17 03:37:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 317.18 Mbit/s

95th percentile per-packet one-way delay: 71.387 ms

Loss rate: 0.37%

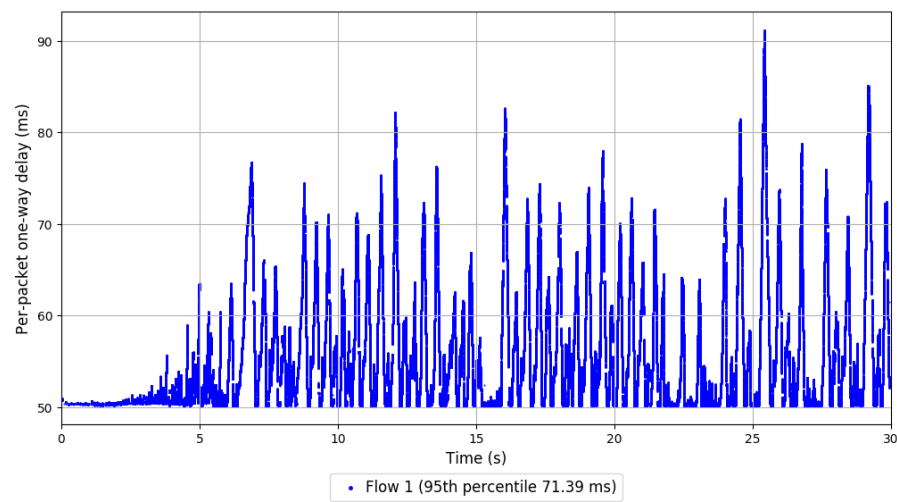
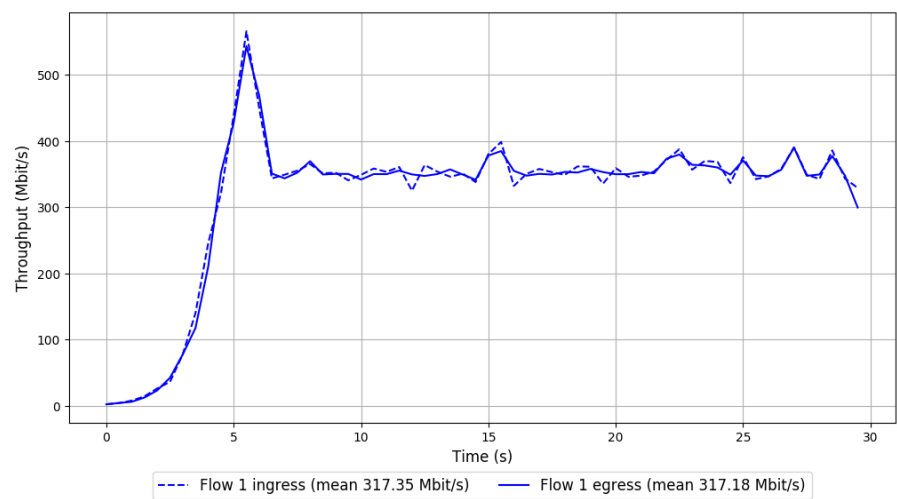
-- Flow 1:

Average throughput: 317.18 Mbit/s

95th percentile per-packet one-way delay: 71.387 ms

Loss rate: 0.37%

Run 3: Report of CalibratedKoho — Data Link



Run 4: Statistics of CalibratedKoho

Start at: 2017-08-17 00:06:51

End at: 2017-08-17 00:07:21

Below is generated by plot.py at 2017-08-17 03:38:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 290.81 Mbit/s

95th percentile per-packet one-way delay: 75.248 ms

Loss rate: 0.43%

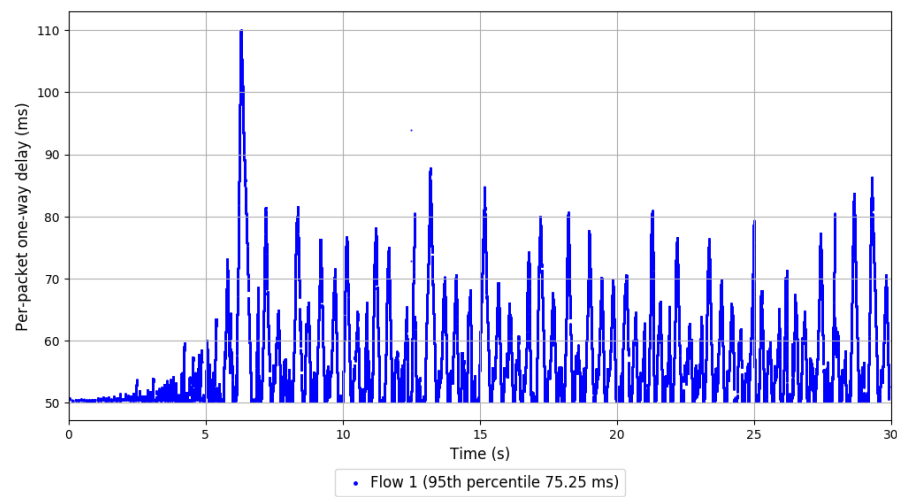
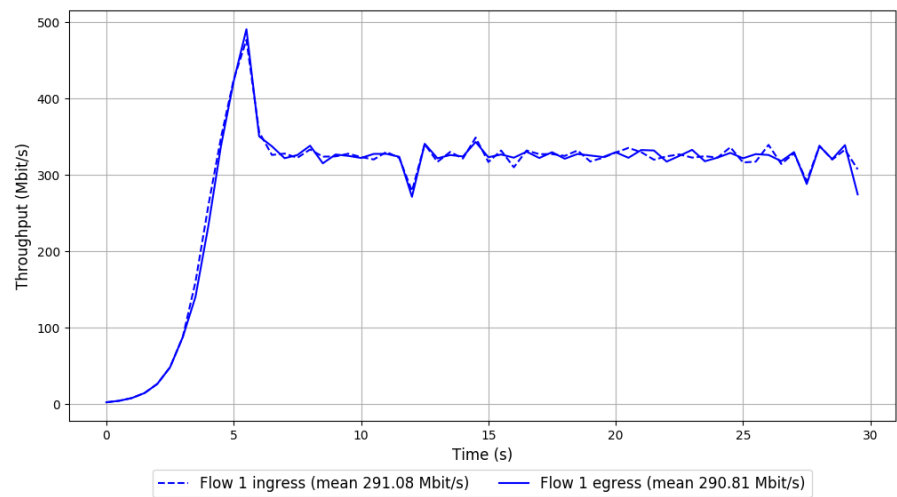
-- Flow 1:

Average throughput: 290.81 Mbit/s

95th percentile per-packet one-way delay: 75.248 ms

Loss rate: 0.43%

Run 4: Report of CalibratedKoho — Data Link



Run 5: Statistics of CalibratedKoho

Start at: 2017-08-17 00:17:17

End at: 2017-08-17 00:17:47

Below is generated by plot.py at 2017-08-17 03:38:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.75 Mbit/s

95th percentile per-packet one-way delay: 55.003 ms

Loss rate: 69.66%

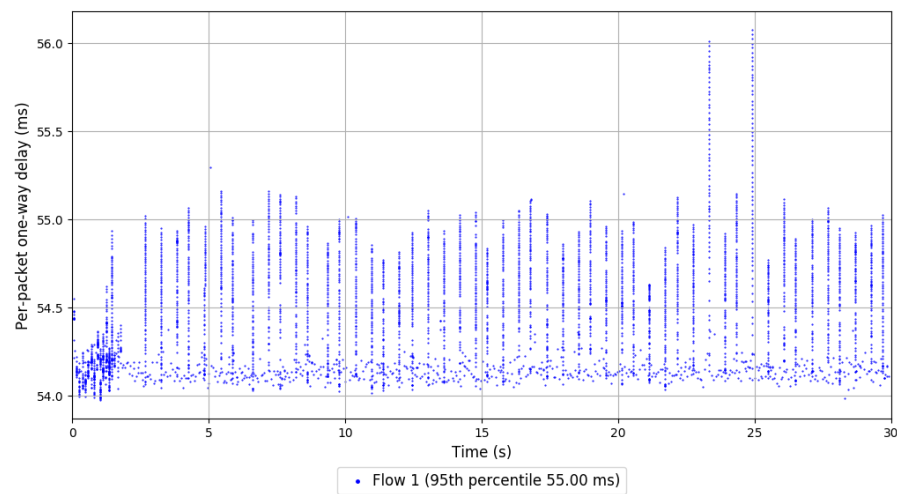
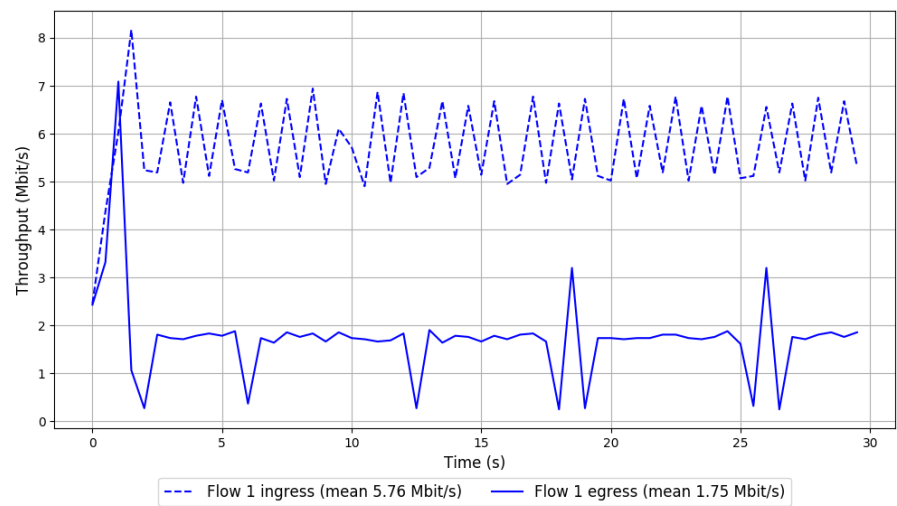
-- Flow 1:

Average throughput: 1.75 Mbit/s

95th percentile per-packet one-way delay: 55.003 ms

Loss rate: 69.66%

Run 5: Report of CalibratedKoho — Data Link



Run 6: Statistics of CalibratedKoho

Start at: 2017-08-17 00:27:57

End at: 2017-08-17 00:28:27

Below is generated by plot.py at 2017-08-17 03:38:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.79 Mbit/s

95th percentile per-packet one-way delay: 54.661 ms

Loss rate: 69.66%

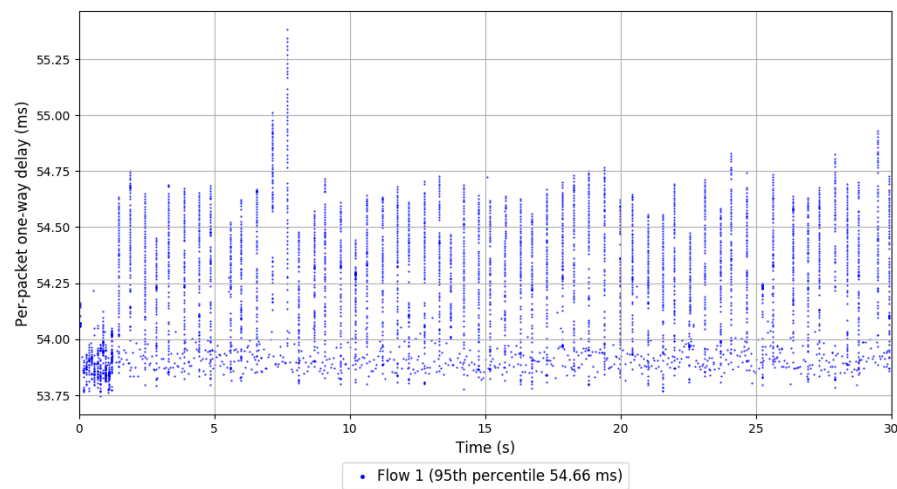
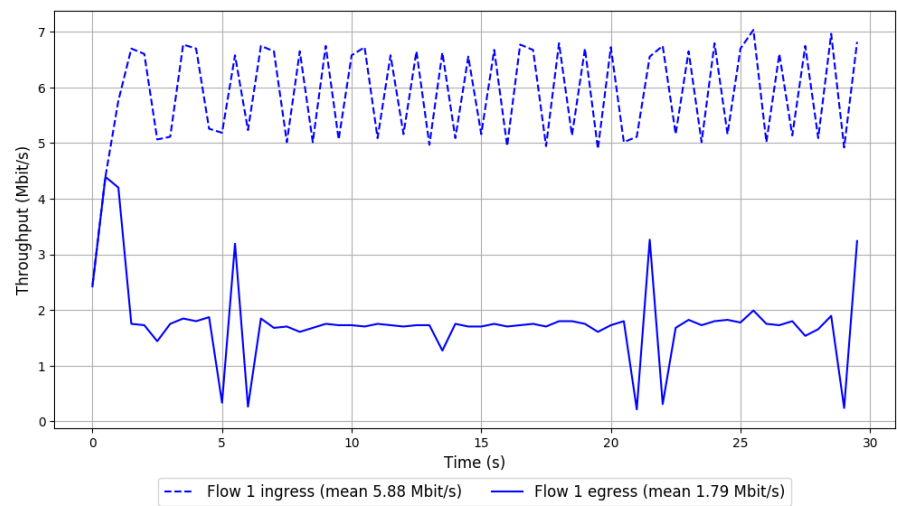
-- Flow 1:

Average throughput: 1.79 Mbit/s

95th percentile per-packet one-way delay: 54.661 ms

Loss rate: 69.66%

Run 6: Report of CalibratedKoho — Data Link



Run 7: Statistics of CalibratedKoho

Start at: 2017-08-17 00:37:31

End at: 2017-08-17 00:38:01

Below is generated by plot.py at 2017-08-17 03:38:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.78 Mbit/s

95th percentile per-packet one-way delay: 54.045 ms

Loss rate: 69.79%

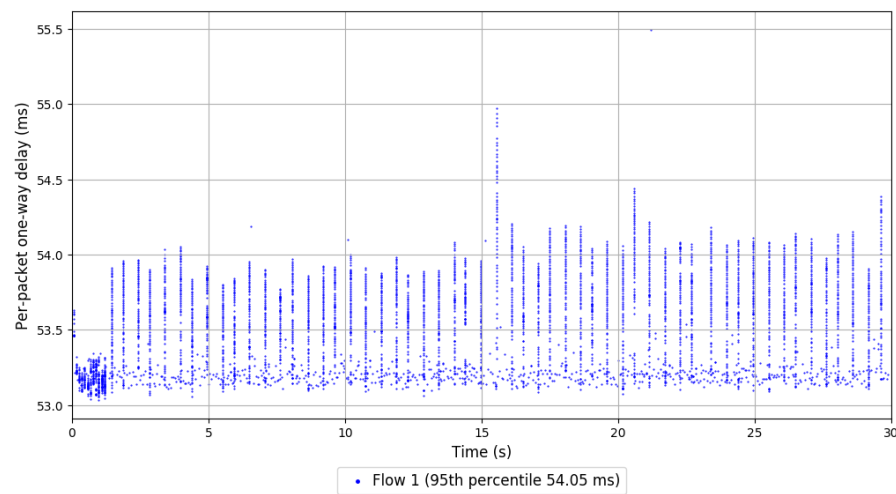
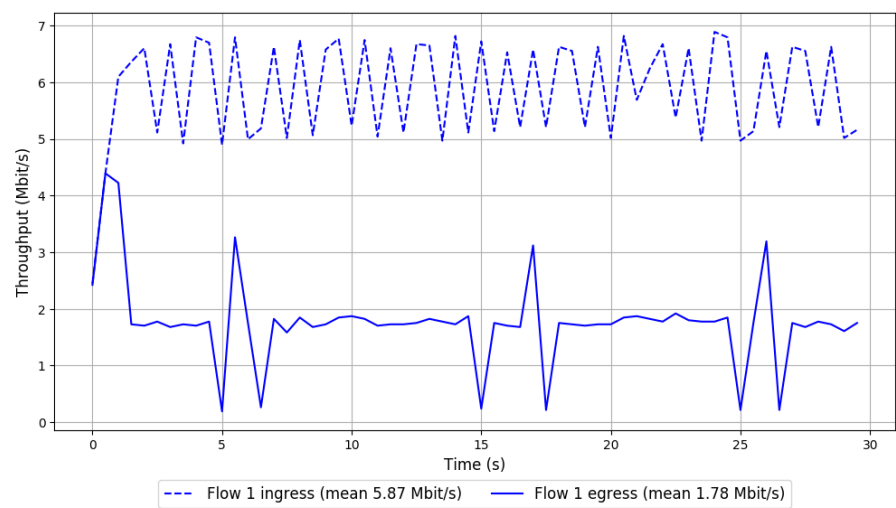
-- Flow 1:

Average throughput: 1.78 Mbit/s

95th percentile per-packet one-way delay: 54.045 ms

Loss rate: 69.79%

Run 7: Report of CalibratedKoho — Data Link

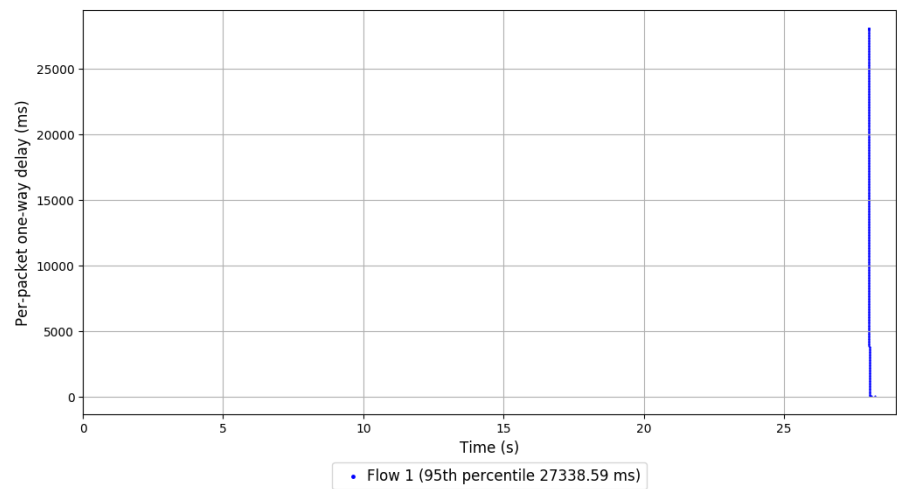
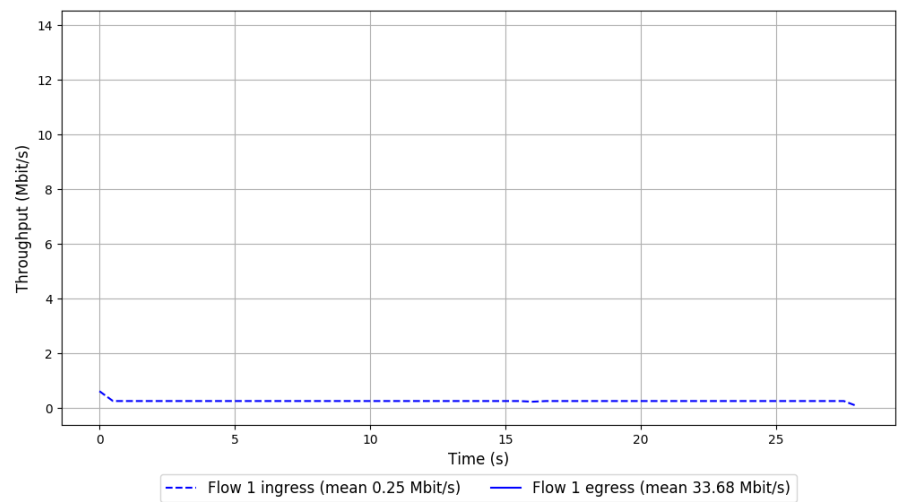


Run 8: Statistics of CalibratedKoho

Start at: 2017-08-17 00:47:33

End at: 2017-08-17 00:48:03

Run 8: Report of CalibratedKoho — Data Link



Run 9: Statistics of CalibratedKoho

Start at: 2017-08-17 00:57:31

End at: 2017-08-17 00:58:01

Below is generated by plot.py at 2017-08-17 03:39:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 316.78 Mbit/s

95th percentile per-packet one-way delay: 67.932 ms

Loss rate: 0.54%

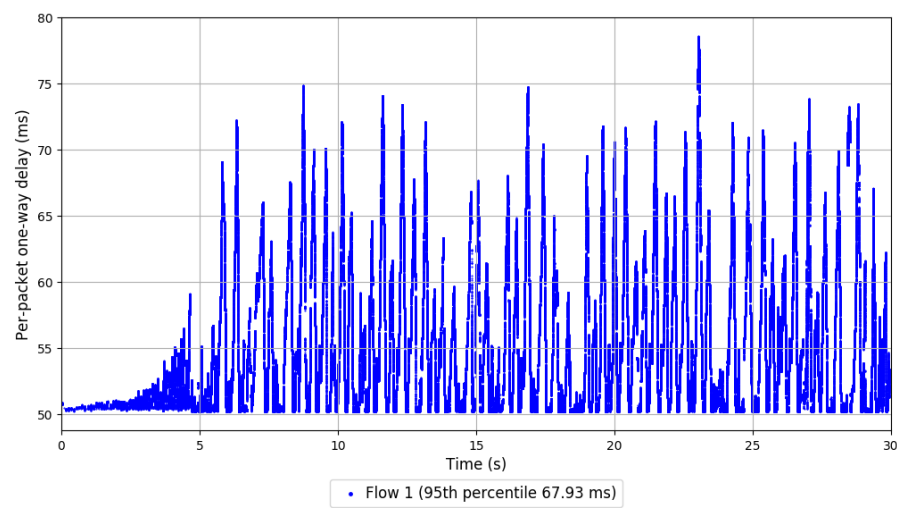
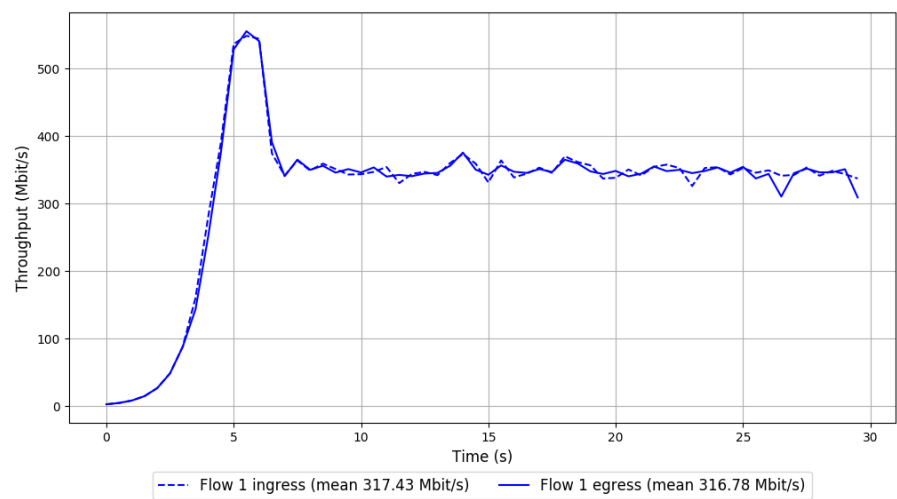
-- Flow 1:

Average throughput: 316.78 Mbit/s

95th percentile per-packet one-way delay: 67.932 ms

Loss rate: 0.54%

Run 9: Report of CalibratedKoho — Data Link



Run 10: Statistics of CalibratedKoho

Start at: 2017-08-17 01:07:48

End at: 2017-08-17 01:08:18

Below is generated by plot.py at 2017-08-17 03:39:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.79 Mbit/s

95th percentile per-packet one-way delay: 54.950 ms

Loss rate: 69.80%

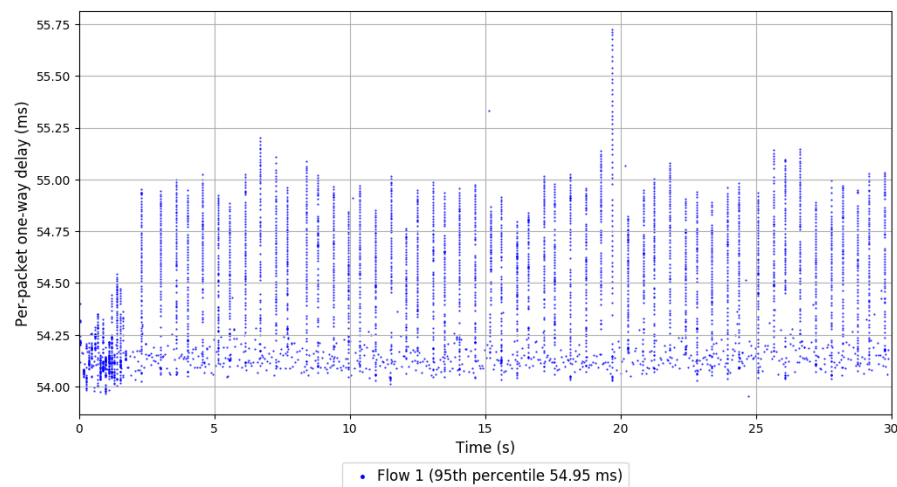
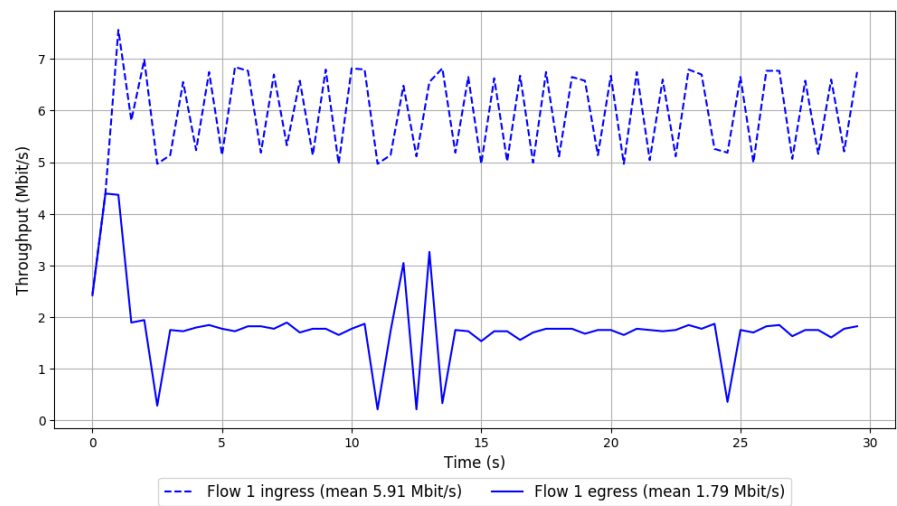
-- Flow 1:

Average throughput: 1.79 Mbit/s

95th percentile per-packet one-way delay: 54.950 ms

Loss rate: 69.80%

Run 10: Report of CalibratedKoho — Data Link



Run 1: Statistics of Copa

Start at: 2017-08-16 23:42:47

End at: 2017-08-16 23:43:17

Below is generated by plot.py at 2017-08-17 03:39:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 101.80 Mbit/s

95th percentile per-packet one-way delay: 53.204 ms

Loss rate: 0.32%

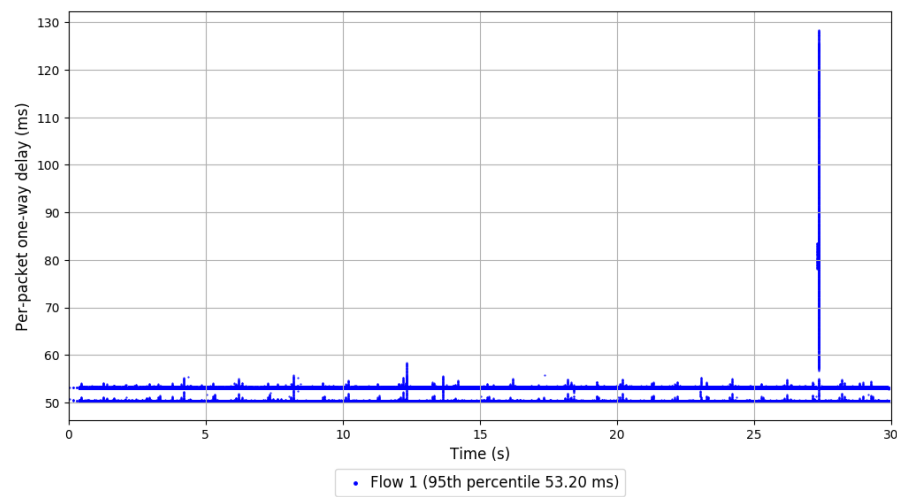
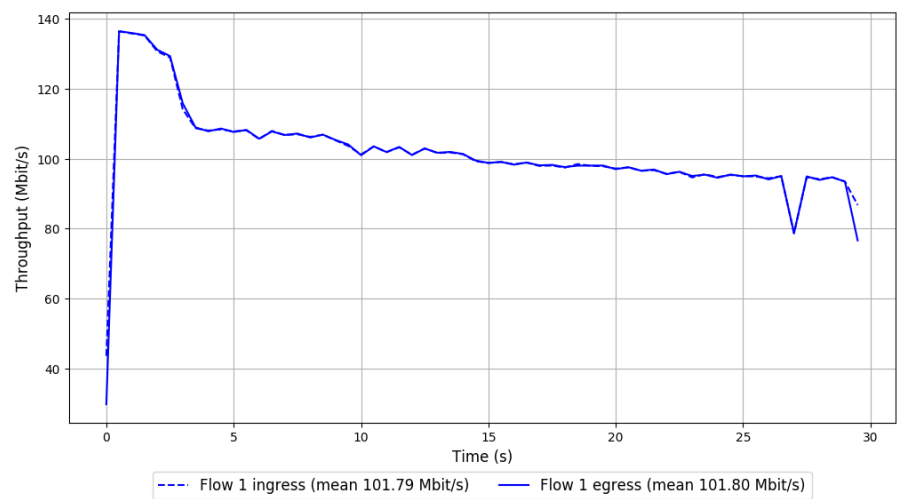
-- Flow 1:

Average throughput: 101.80 Mbit/s

95th percentile per-packet one-way delay: 53.204 ms

Loss rate: 0.32%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2017-08-16 23:52:49

End at: 2017-08-16 23:53:19

Below is generated by plot.py at 2017-08-17 03:39:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 103.89 Mbit/s

95th percentile per-packet one-way delay: 53.841 ms

Loss rate: 0.44%

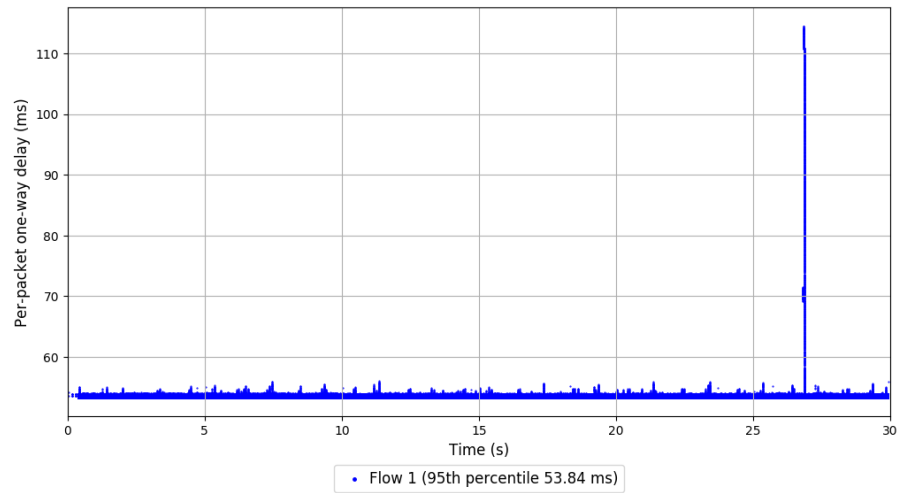
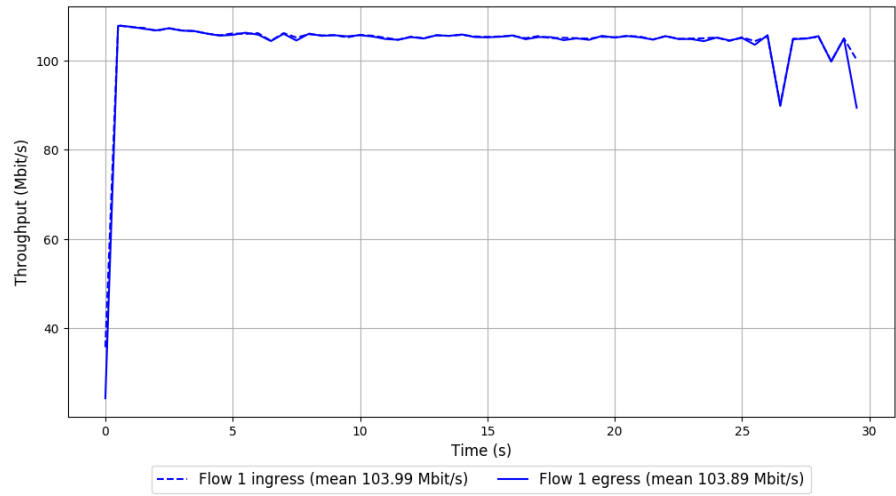
-- Flow 1:

Average throughput: 103.89 Mbit/s

95th percentile per-packet one-way delay: 53.841 ms

Loss rate: 0.44%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2017-08-17 00:03:31

End at: 2017-08-17 00:04:01

Below is generated by plot.py at 2017-08-17 03:39:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 8.70 Mbit/s

95th percentile per-packet one-way delay: 50.171 ms

Loss rate: 89.77%

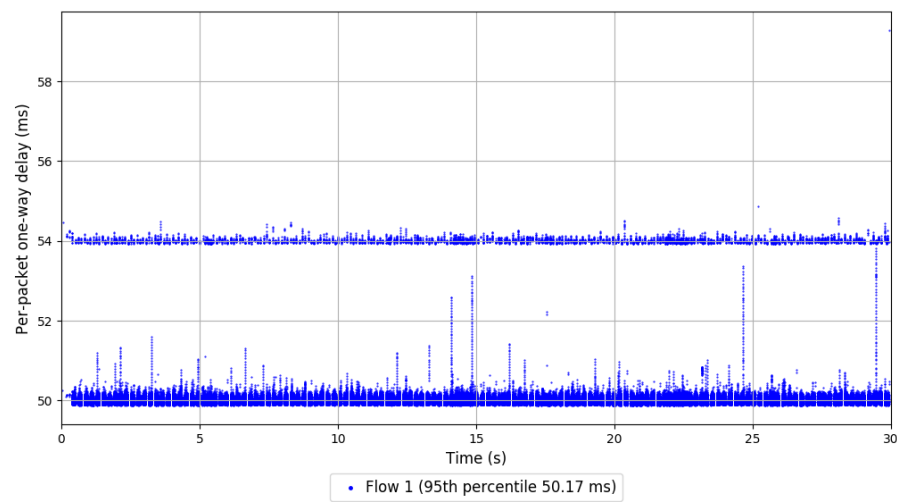
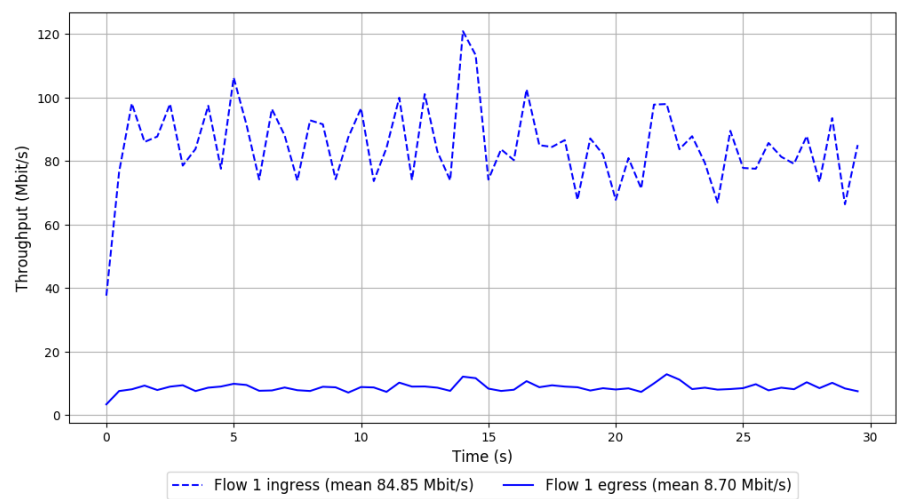
-- Flow 1:

Average throughput: 8.70 Mbit/s

95th percentile per-packet one-way delay: 50.171 ms

Loss rate: 89.77%

Run 3: Report of Copa — Data Link

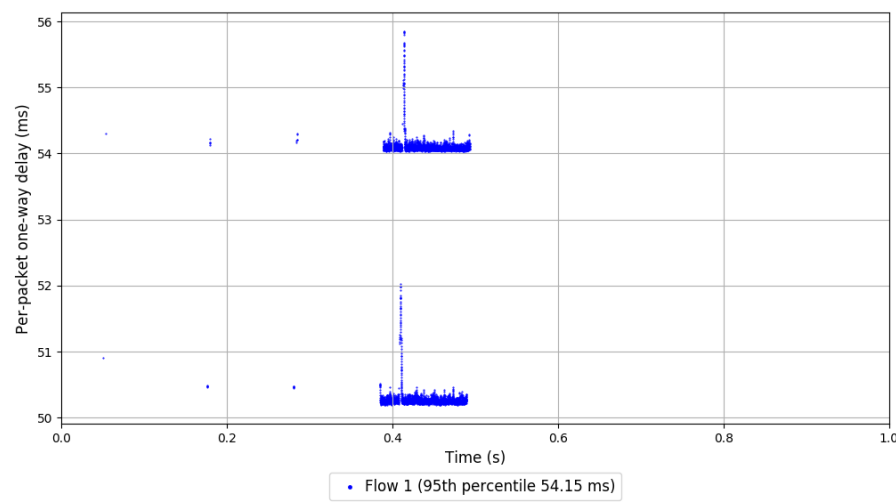
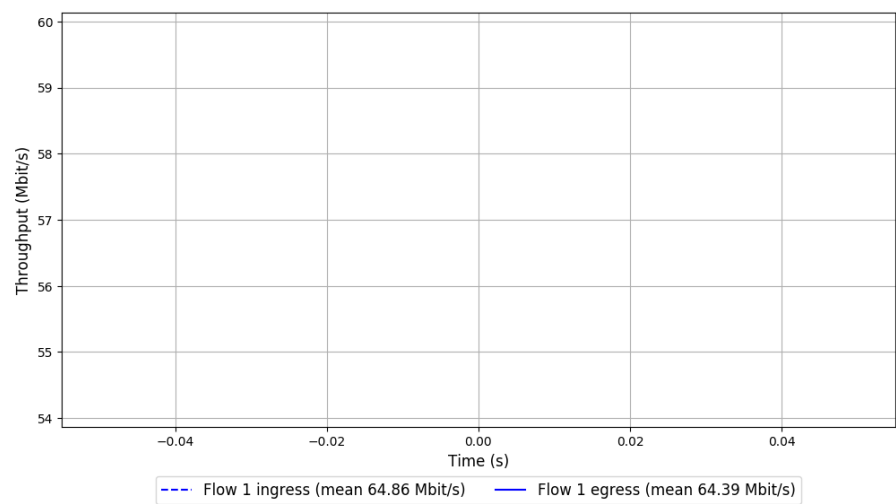


Run 4: Statistics of Copa

Start at: 2017-08-17 00:13:58

End at: 2017-08-17 00:14:28

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2017-08-17 00:24:04

End at: 2017-08-17 00:24:34

Below is generated by plot.py at 2017-08-17 03:40:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 84.15 Mbit/s

95th percentile per-packet one-way delay: 53.533 ms

Loss rate: 0.34%

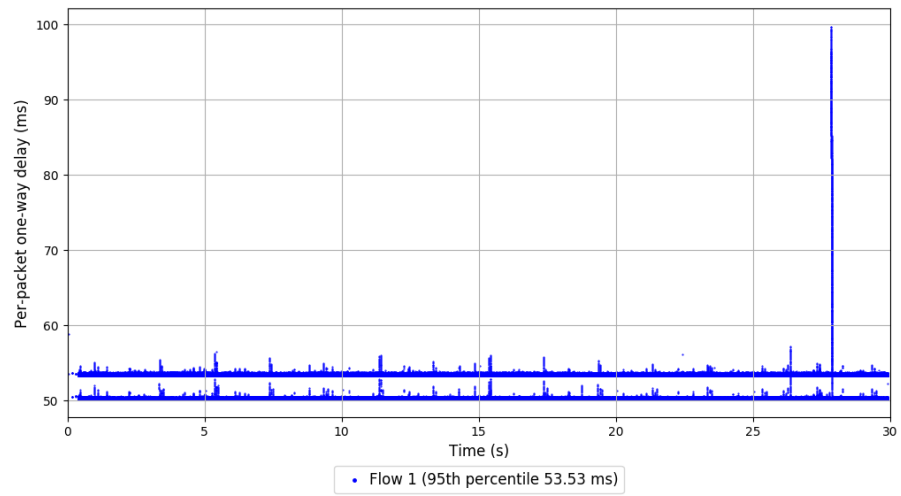
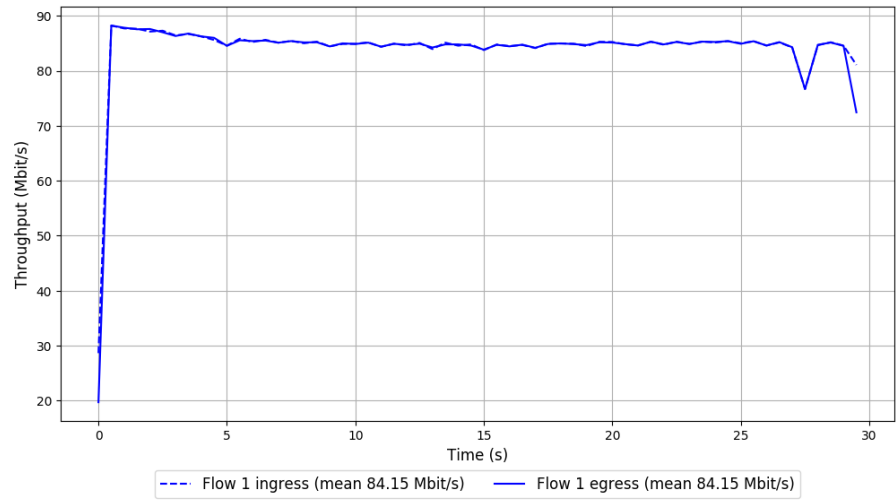
-- Flow 1:

Average throughput: 84.15 Mbit/s

95th percentile per-packet one-way delay: 53.533 ms

Loss rate: 0.34%

Run 5: Report of Copa — Data Link

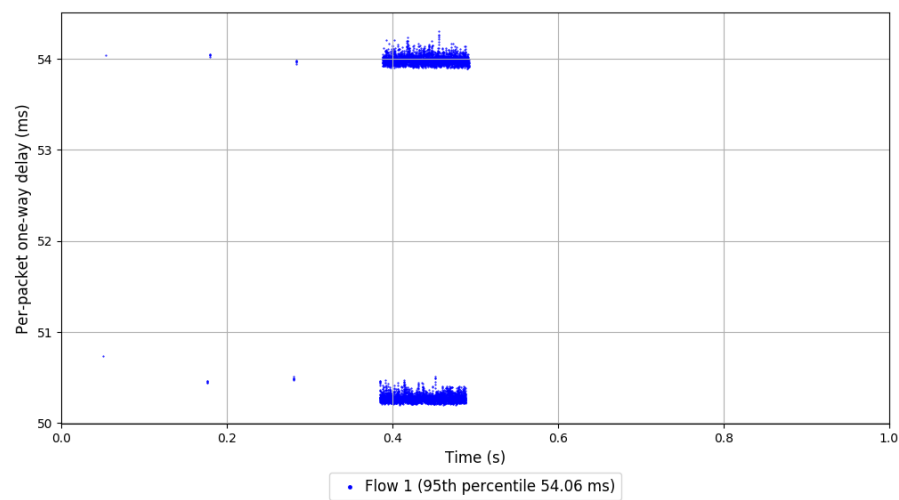
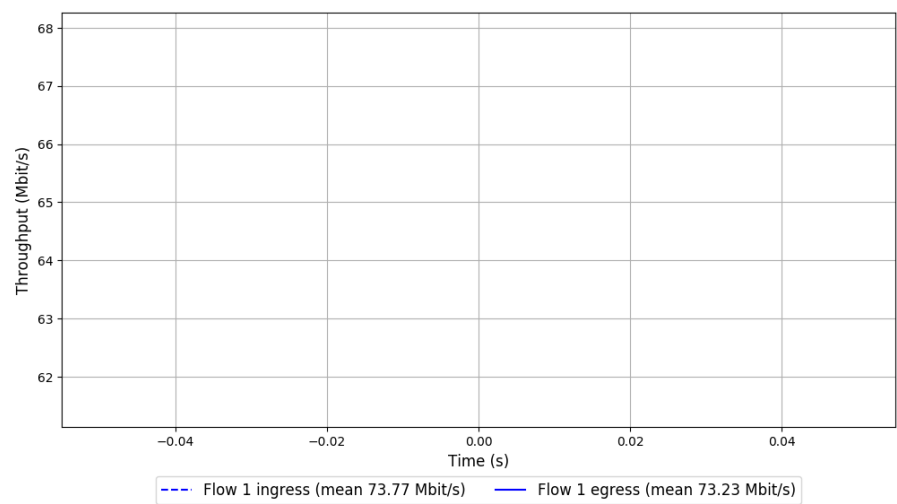


Run 6: Statistics of Copa

Start at: 2017-08-17 00:34:19

End at: 2017-08-17 00:34:49

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2017-08-17 00:44:05

End at: 2017-08-17 00:44:35

Below is generated by plot.py at 2017-08-17 03:40:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 93.60 Mbit/s

95th percentile per-packet one-way delay: 54.101 ms

Loss rate: 0.36%

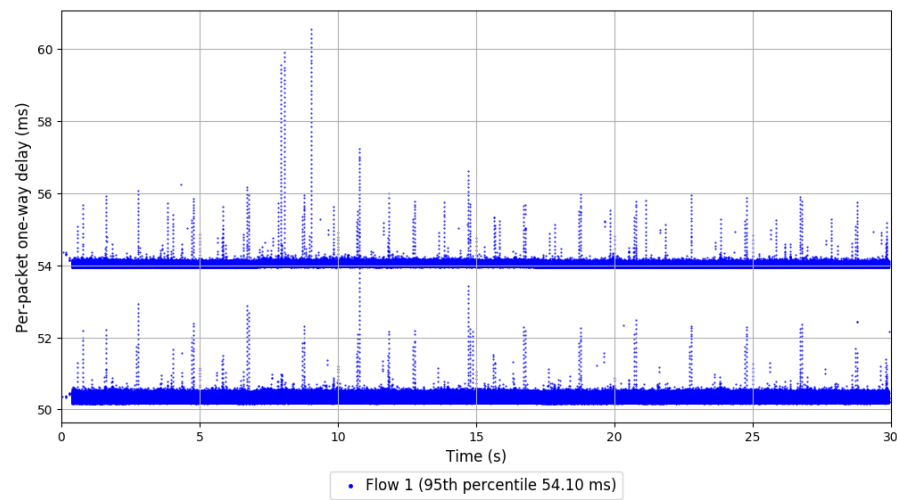
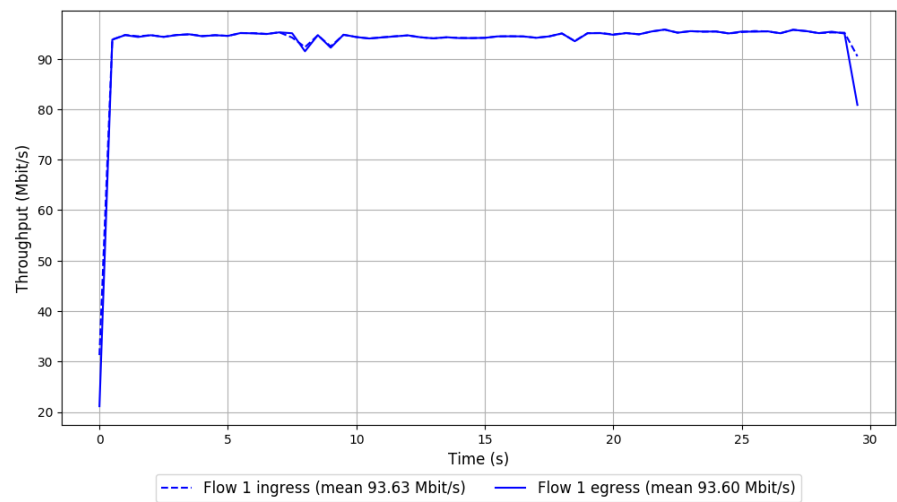
-- Flow 1:

Average throughput: 93.60 Mbit/s

95th percentile per-packet one-way delay: 54.101 ms

Loss rate: 0.36%

Run 7: Report of Copa — Data Link

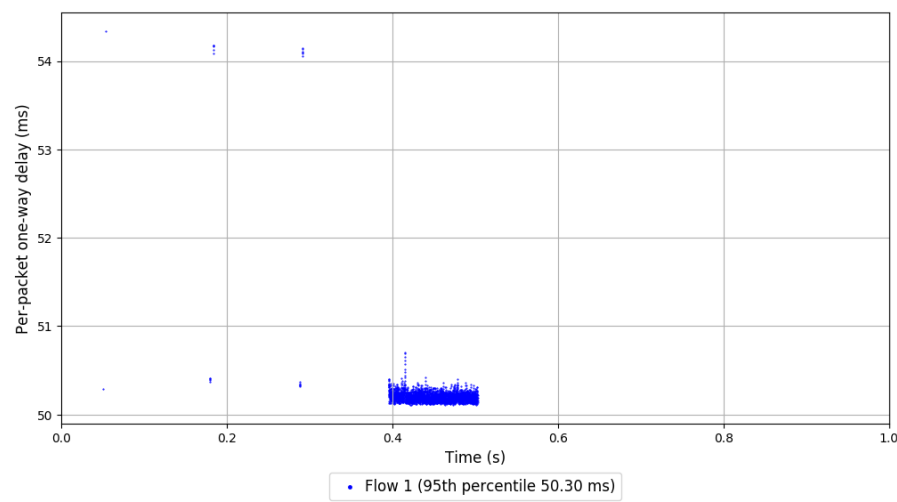
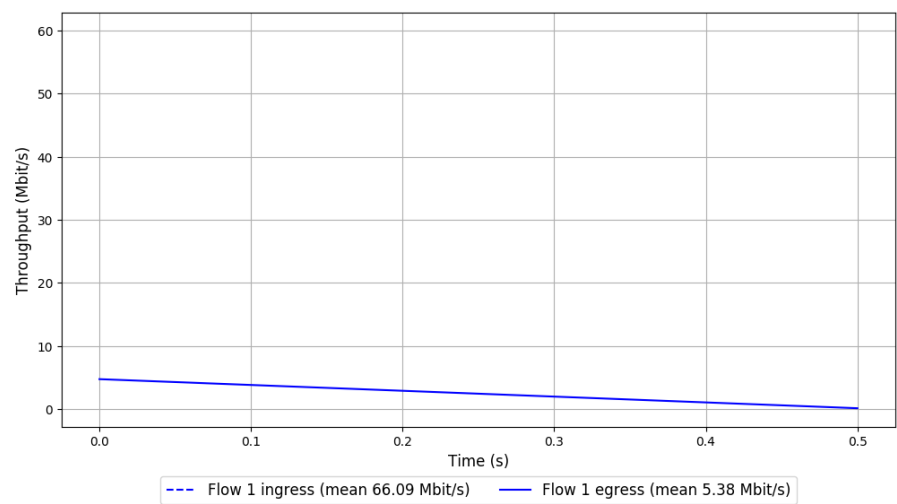


Run 8: Statistics of Copa

Start at: 2017-08-17 00:54:09

End at: 2017-08-17 00:54:39

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2017-08-17 01:04:30

End at: 2017-08-17 01:05:00

Below is generated by plot.py at 2017-08-17 03:40:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 97.43 Mbit/s

95th percentile per-packet one-way delay: 53.740 ms

Loss rate: 0.36%

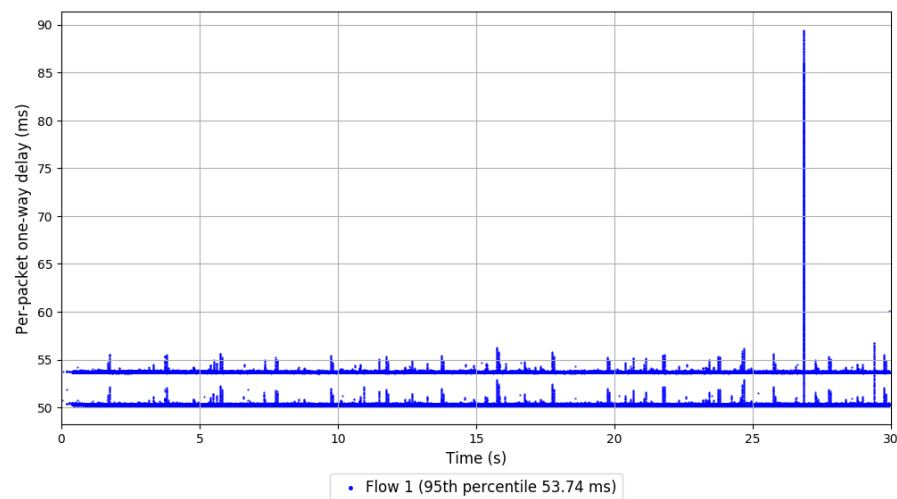
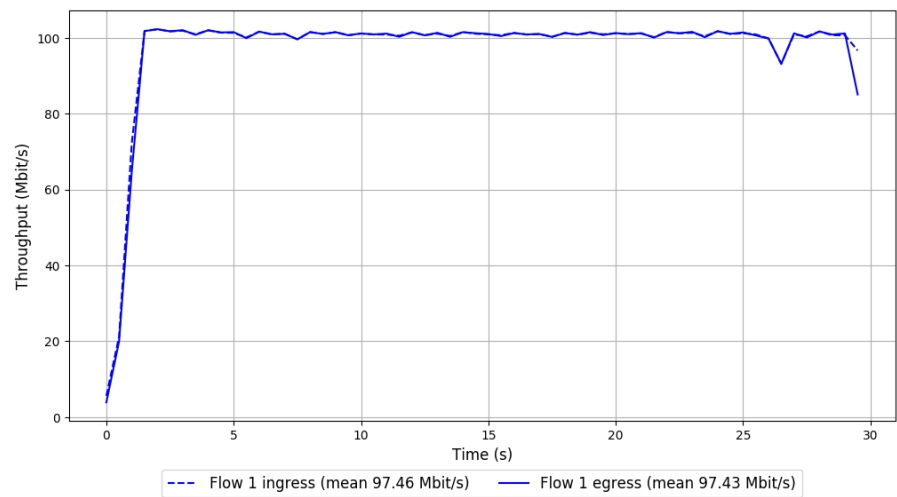
-- Flow 1:

Average throughput: 97.43 Mbit/s

95th percentile per-packet one-way delay: 53.740 ms

Loss rate: 0.36%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2017-08-17 01:14:36

End at: 2017-08-17 01:15:06

Below is generated by plot.py at 2017-08-17 03:41:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 123.11 Mbit/s

95th percentile per-packet one-way delay: 53.071 ms

Loss rate: 0.34%

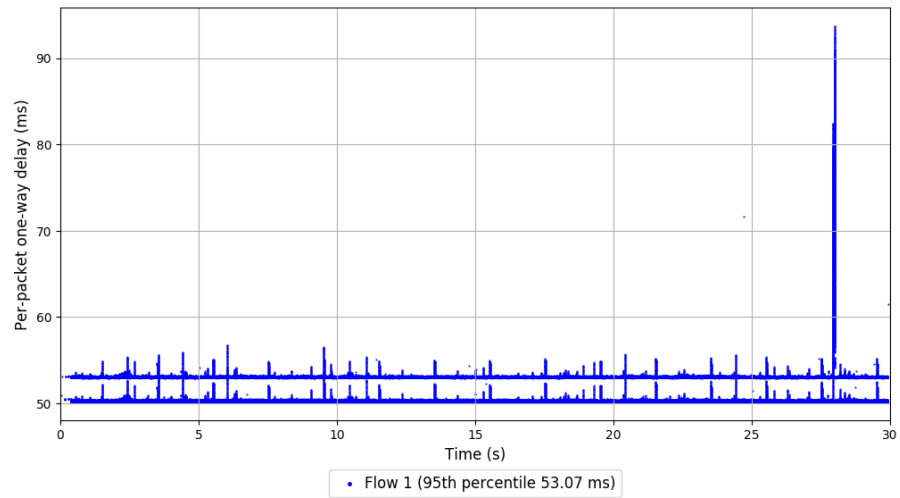
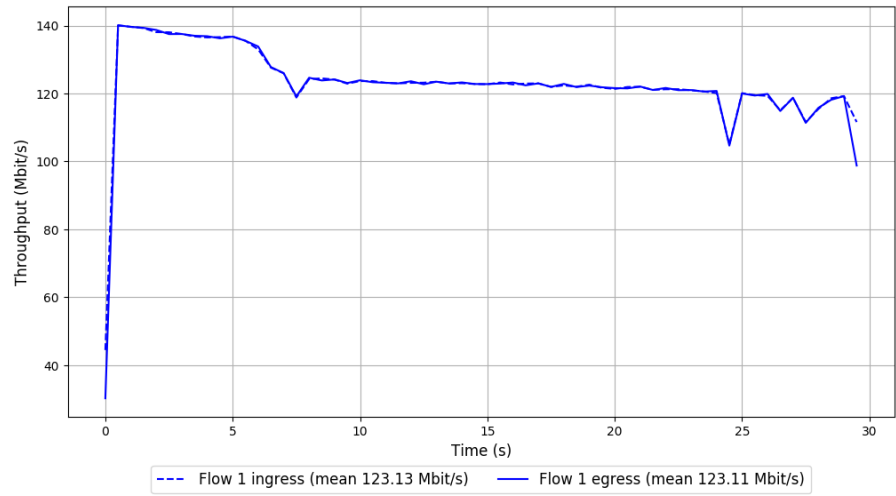
-- Flow 1:

Average throughput: 123.11 Mbit/s

95th percentile per-packet one-way delay: 53.071 ms

Loss rate: 0.34%

Run 10: Report of Copa — Data Link

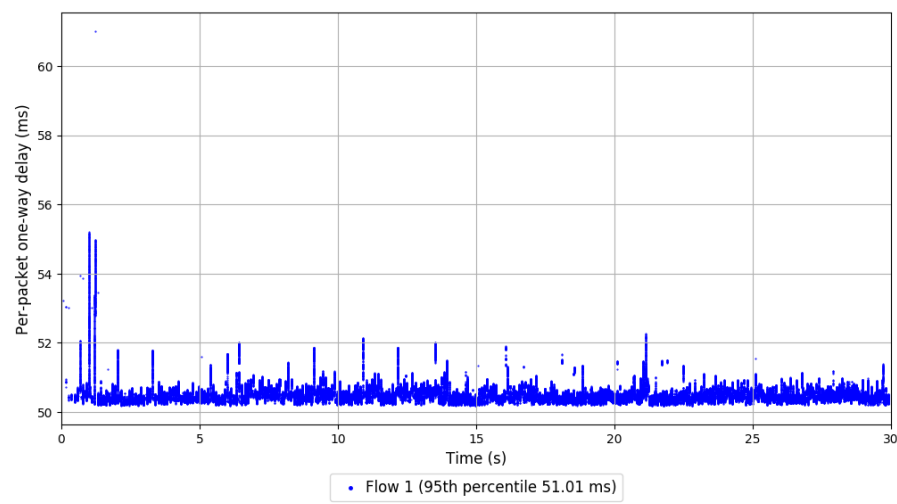
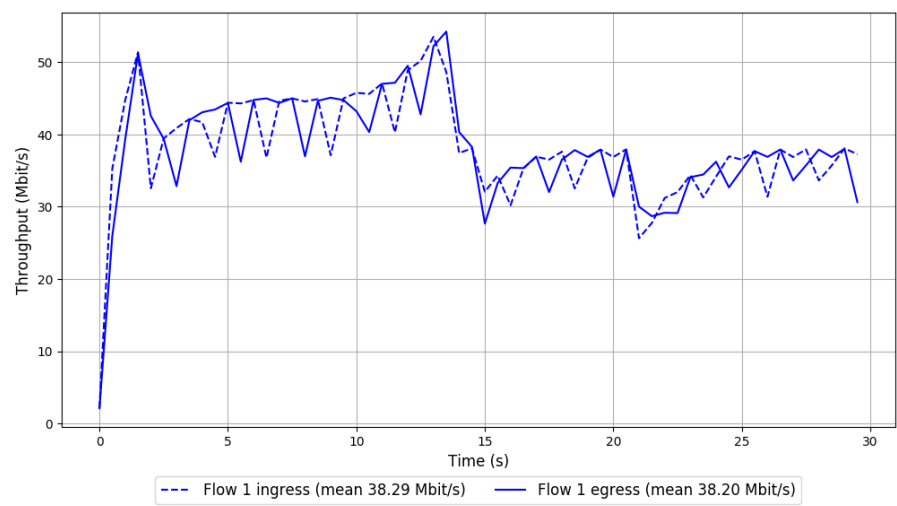


```
Run 1: Statistics of TCP Cubic

Start at: 2017-08-16 23:39:28
End at: 2017-08-16 23:39:58

# Below is generated by plot.py at 2017-08-17 03:41:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 38.20 Mbit/s
95th percentile per-packet one-way delay: 51.013 ms
Loss rate: 0.58%
-- Flow 1:
Average throughput: 38.20 Mbit/s
95th percentile per-packet one-way delay: 51.013 ms
Loss rate: 0.58%
```

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2017-08-16 23:49:30

End at: 2017-08-16 23:50:00

Below is generated by plot.py at 2017-08-17 03:41:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 81.28 Mbit/s

95th percentile per-packet one-way delay: 51.477 ms

Loss rate: 0.55%

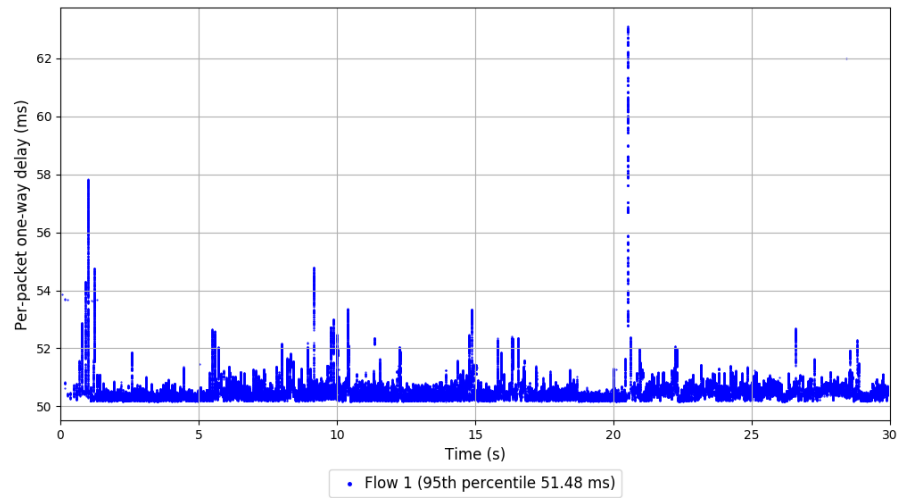
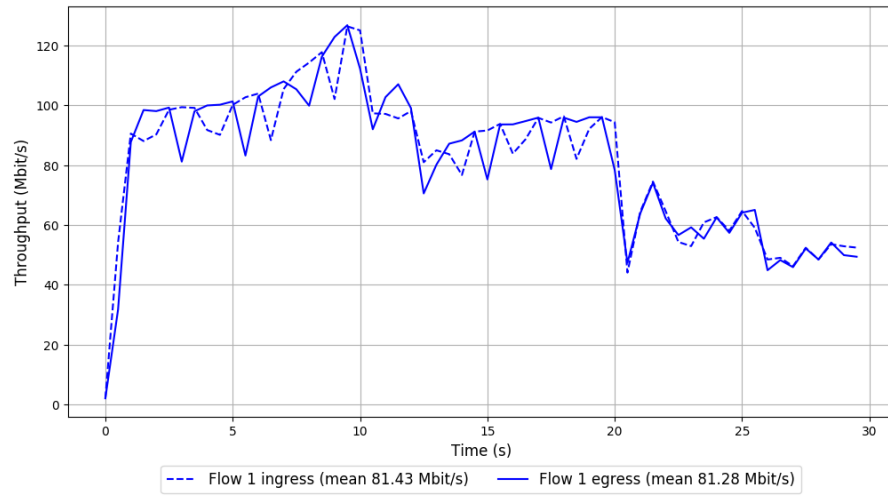
-- Flow 1:

Average throughput: 81.28 Mbit/s

95th percentile per-packet one-way delay: 51.477 ms

Loss rate: 0.55%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2017-08-17 00:00:19

End at: 2017-08-17 00:00:49

Below is generated by plot.py at 2017-08-17 03:41:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.03 Mbit/s

95th percentile per-packet one-way delay: 54.121 ms

Loss rate: 3.83%

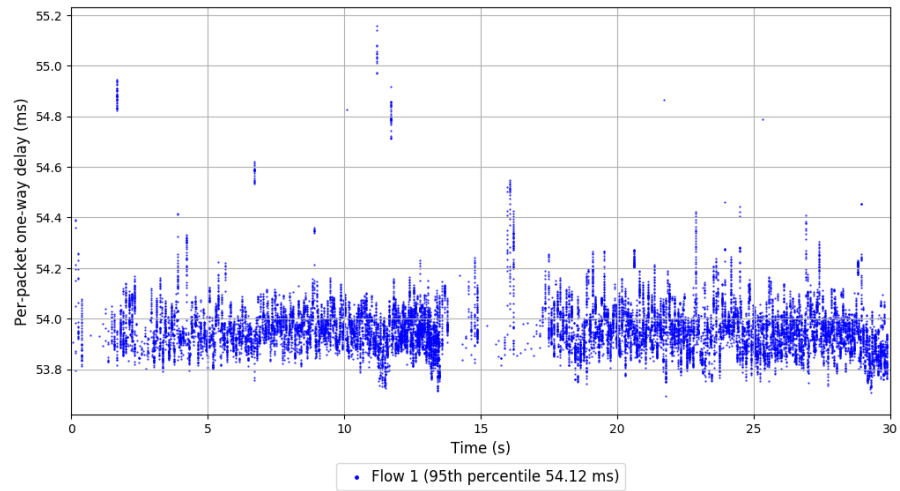
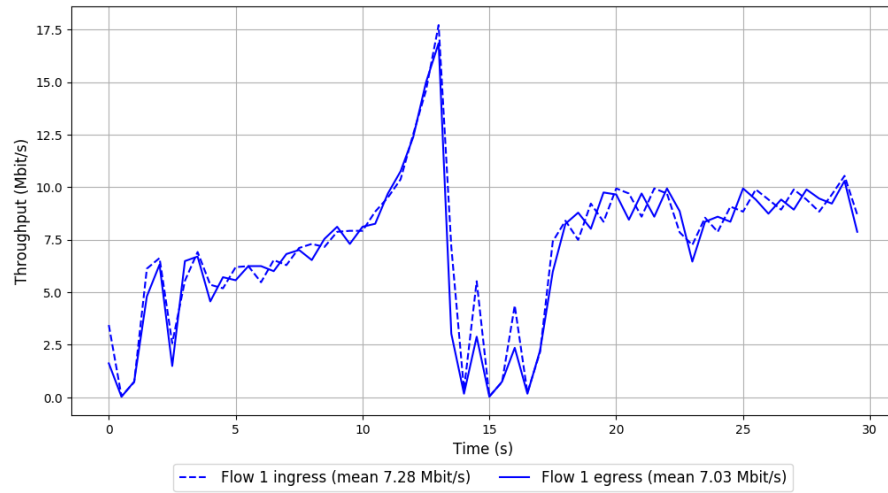
-- Flow 1:

Average throughput: 7.03 Mbit/s

95th percentile per-packet one-way delay: 54.121 ms

Loss rate: 3.83%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2017-08-17 00:10:41

End at: 2017-08-17 00:11:11

Below is generated by plot.py at 2017-08-17 03:41:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 85.90 Mbit/s

95th percentile per-packet one-way delay: 51.267 ms

Loss rate: 0.40%

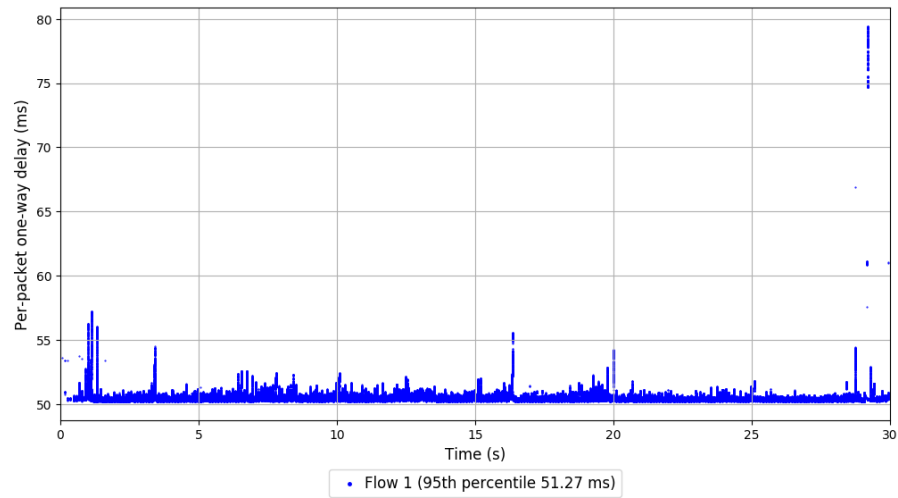
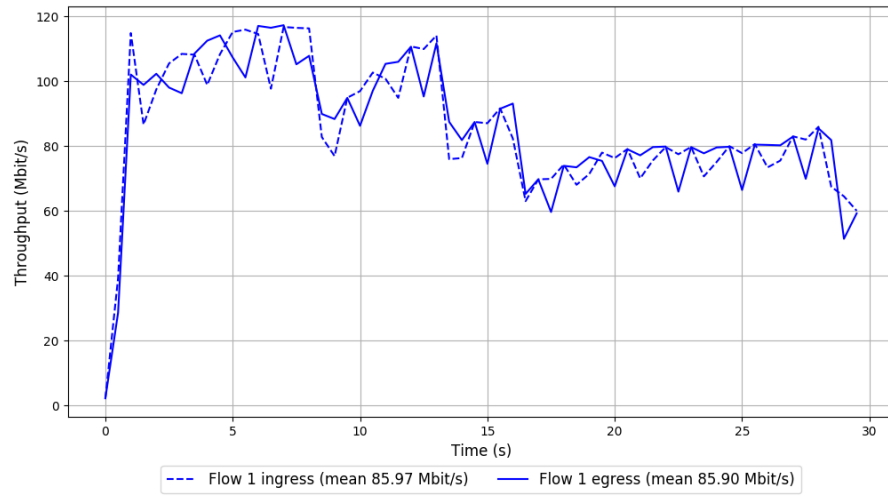
-- Flow 1:

Average throughput: 85.90 Mbit/s

95th percentile per-packet one-way delay: 51.267 ms

Loss rate: 0.40%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2017-08-17 00:20:52

End at: 2017-08-17 00:21:22

Below is generated by plot.py at 2017-08-17 03:41:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 51.82 Mbit/s

95th percentile per-packet one-way delay: 50.983 ms

Loss rate: 1.22%

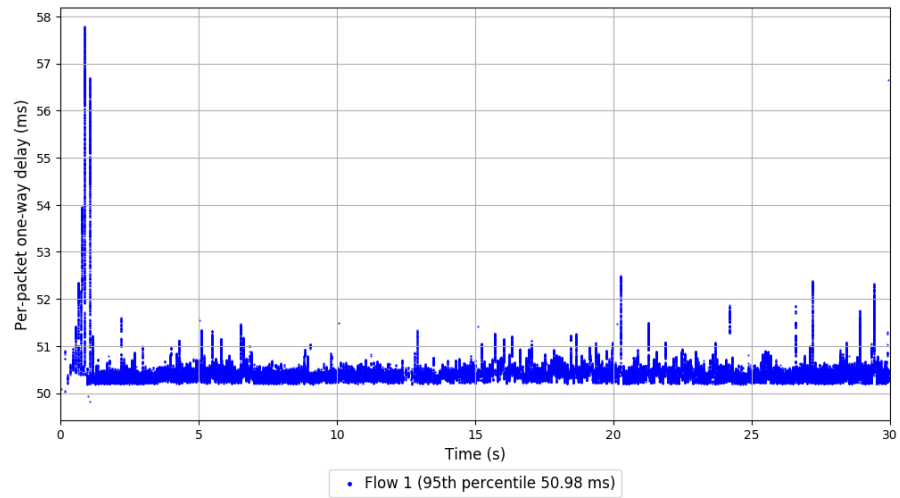
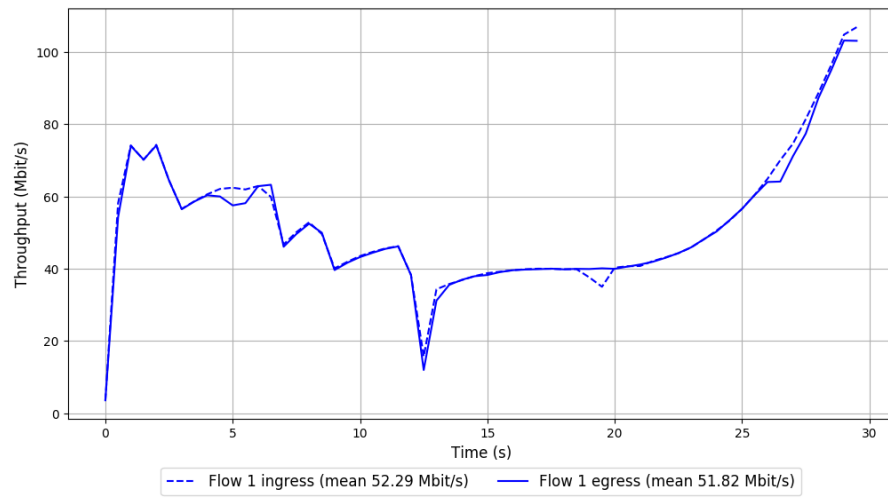
-- Flow 1:

Average throughput: 51.82 Mbit/s

95th percentile per-packet one-way delay: 50.983 ms

Loss rate: 1.22%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2017-08-17 00:31:09

End at: 2017-08-17 00:31:39

Below is generated by plot.py at 2017-08-17 03:41:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 9.82 Mbit/s

95th percentile per-packet one-way delay: 50.603 ms

Loss rate: 0.83%

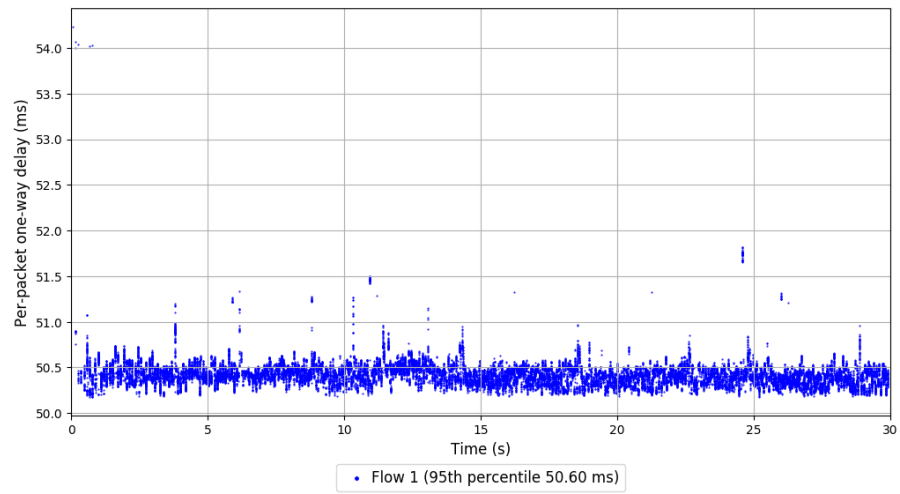
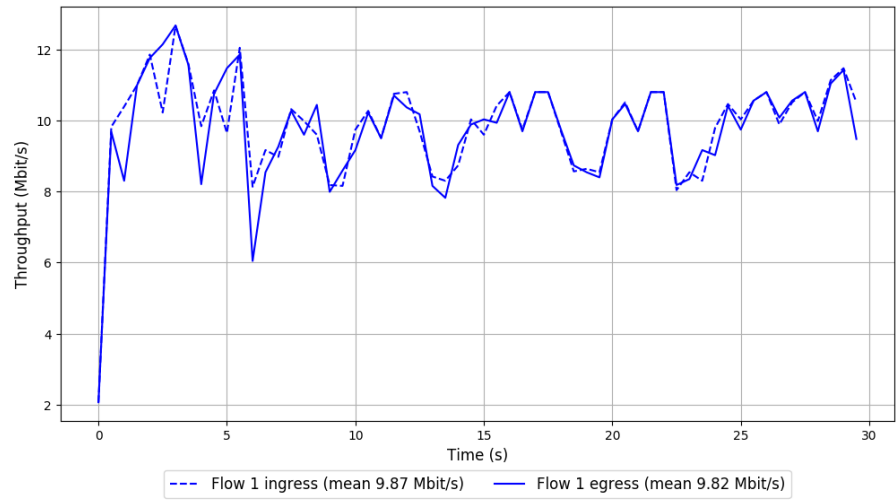
-- Flow 1:

Average throughput: 9.82 Mbit/s

95th percentile per-packet one-way delay: 50.603 ms

Loss rate: 0.83%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2017-08-17 00:40:46

End at: 2017-08-17 00:41:16

Below is generated by plot.py at 2017-08-17 03:41:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 28.78 Mbit/s

95th percentile per-packet one-way delay: 50.816 ms

Loss rate: 0.55%

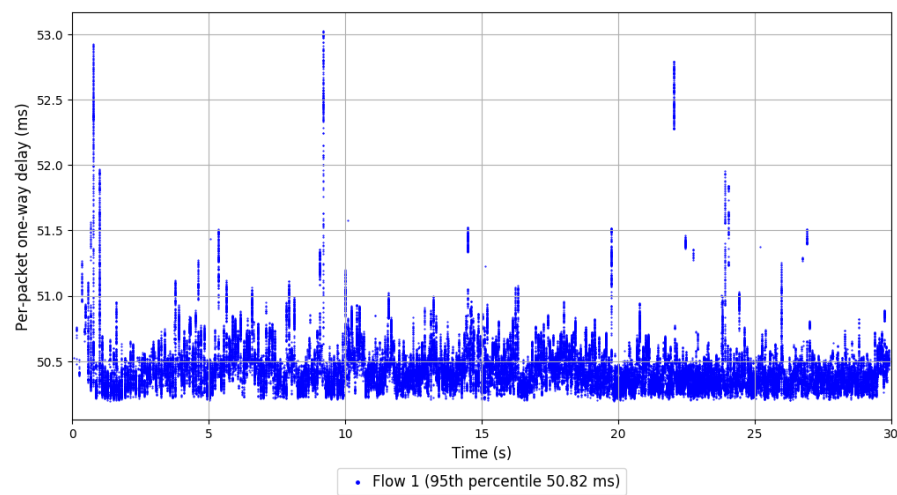
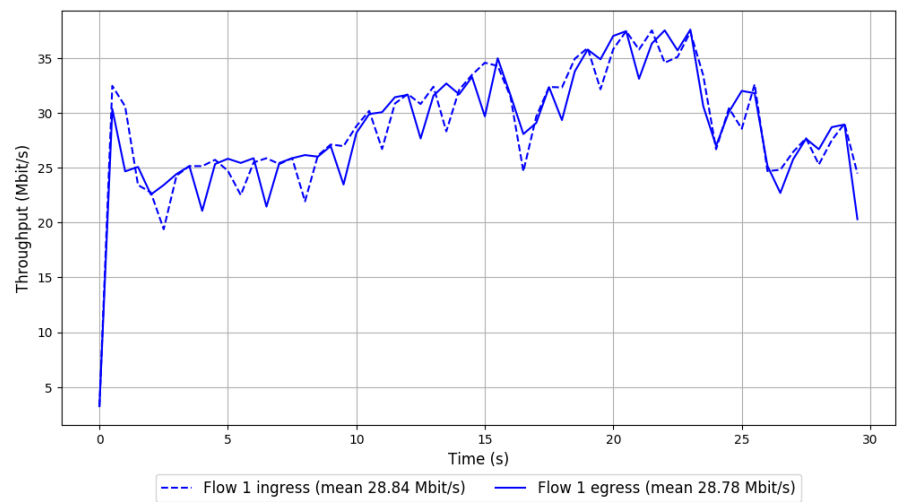
-- Flow 1:

Average throughput: 28.78 Mbit/s

95th percentile per-packet one-way delay: 50.816 ms

Loss rate: 0.55%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2017-08-17 00:50:50

End at: 2017-08-17 00:51:20

Below is generated by plot.py at 2017-08-17 03:41:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 55.63 Mbit/s

95th percentile per-packet one-way delay: 50.997 ms

Loss rate: 1.02%

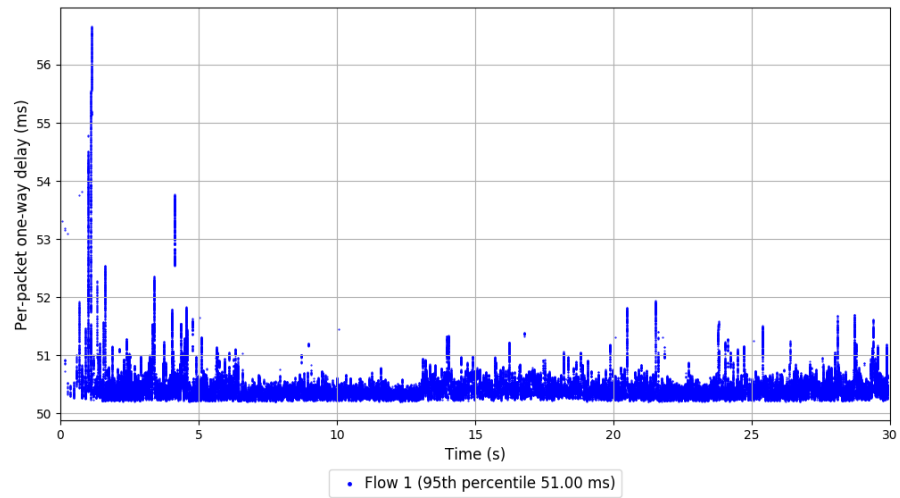
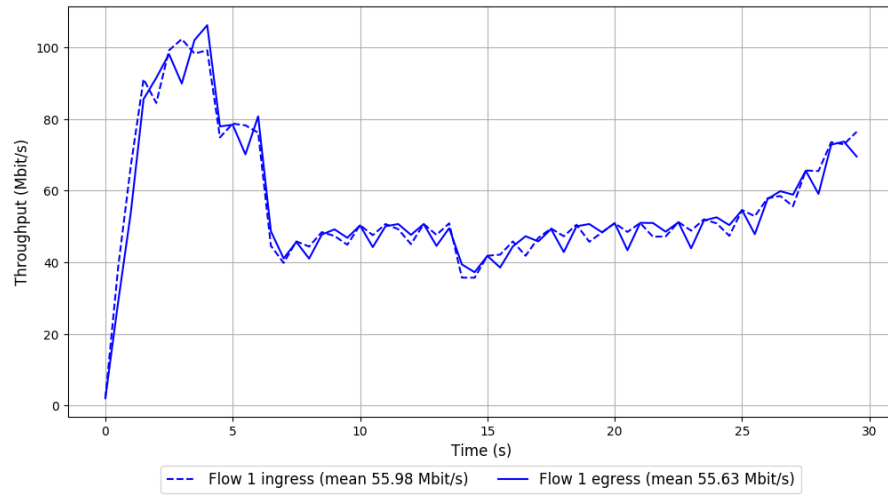
-- Flow 1:

Average throughput: 55.63 Mbit/s

95th percentile per-packet one-way delay: 50.997 ms

Loss rate: 1.02%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2017-08-17 01:01:11

End at: 2017-08-17 01:01:41

Below is generated by plot.py at 2017-08-17 03:41:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 48.33 Mbit/s

95th percentile per-packet one-way delay: 50.877 ms

Loss rate: 1.45%

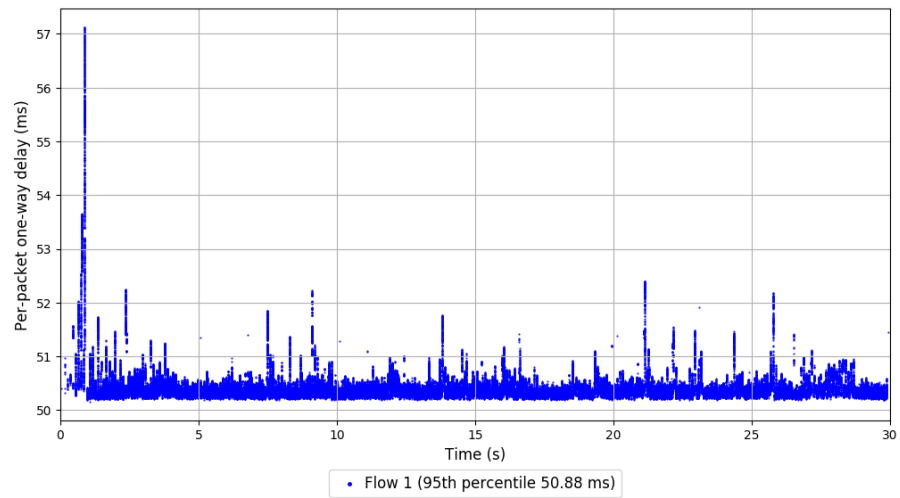
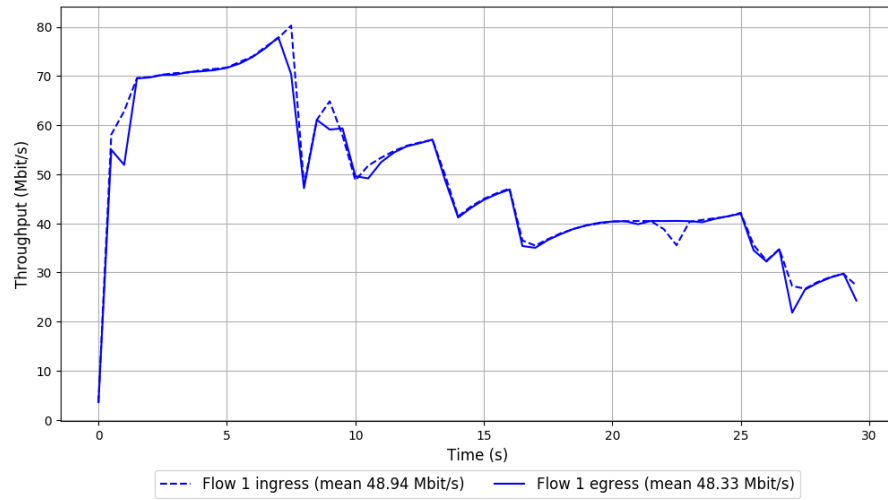
-- Flow 1:

Average throughput: 48.33 Mbit/s

95th percentile per-packet one-way delay: 50.877 ms

Loss rate: 1.45%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2017-08-17 01:11:20

End at: 2017-08-17 01:11:50

Below is generated by plot.py at 2017-08-17 03:41:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.85 Mbit/s

95th percentile per-packet one-way delay: 54.194 ms

Loss rate: 1.24%

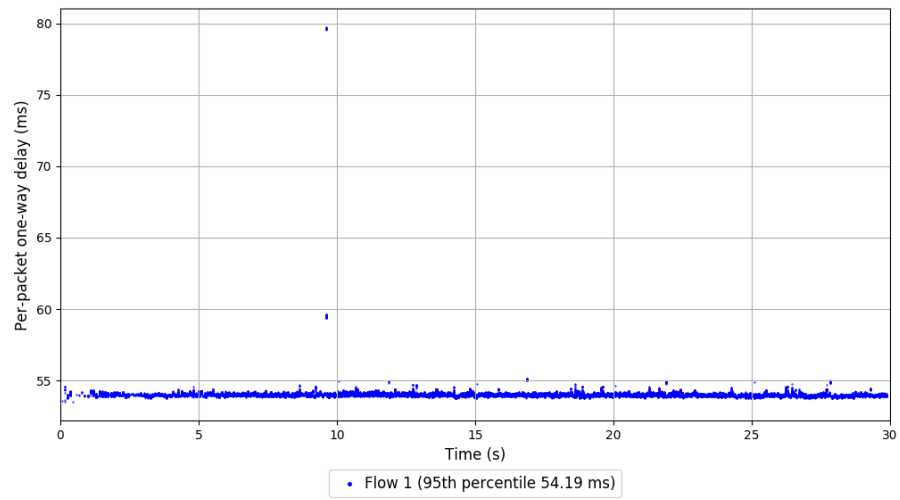
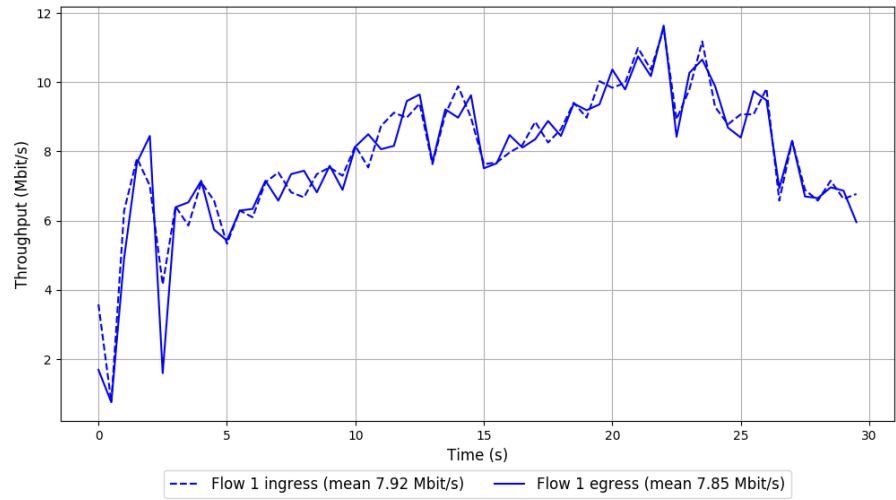
-- Flow 1:

Average throughput: 7.85 Mbit/s

95th percentile per-packet one-way delay: 54.194 ms

Loss rate: 1.24%

Run 10: Report of TCP Cubic — Data Link

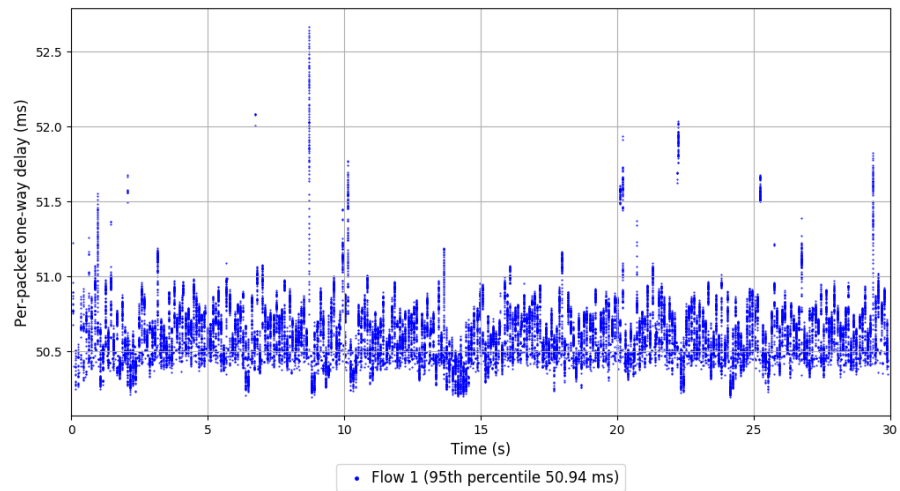
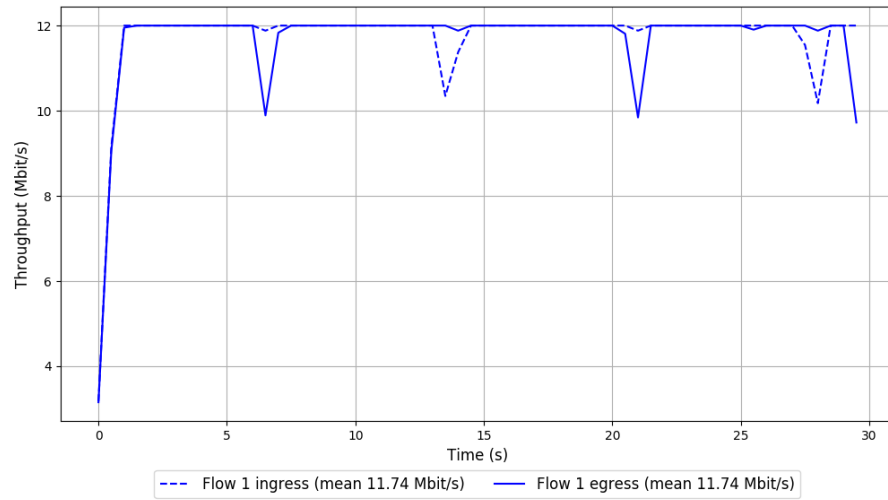


```
Run 1: Statistics of KohoCC

Start at: 2017-08-16 23:37:15
End at: 2017-08-16 23:37:45

# Below is generated by plot.py at 2017-08-17 03:41:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 11.74 Mbit/s
95th percentile per-packet one-way delay: 50.942 ms
Loss rate: 0.37%
-- Flow 1:
Average throughput: 11.74 Mbit/s
95th percentile per-packet one-way delay: 50.942 ms
Loss rate: 0.37%
```


Run 1: Report of KohoCC — Data Link

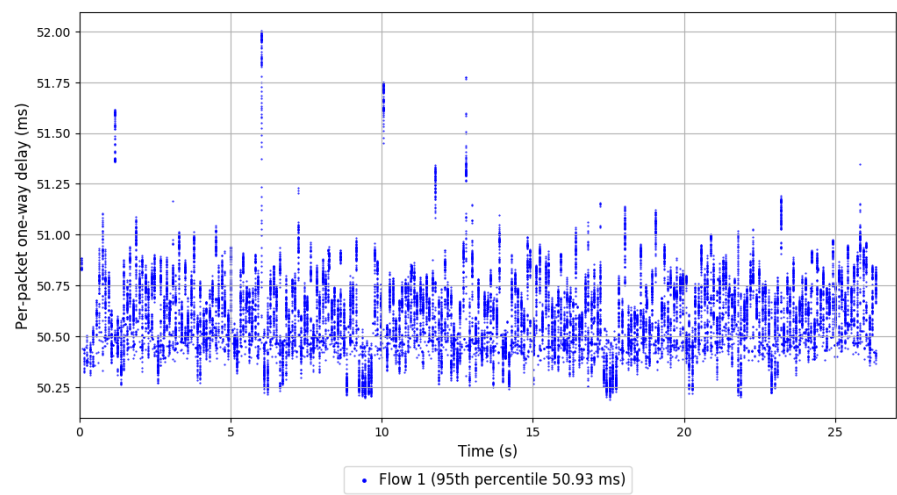
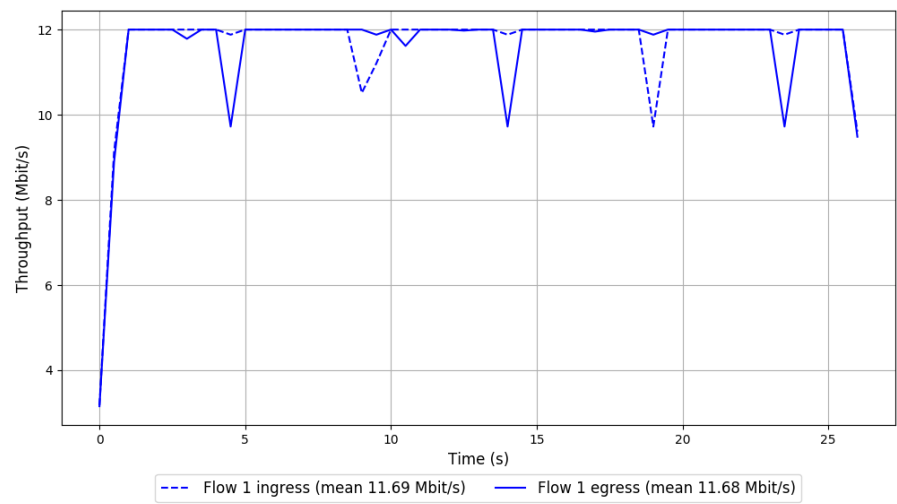


```
Run 2: Statistics of KohoCC

Start at: 2017-08-16 23:47:32
End at: 2017-08-16 23:48:02

# Below is generated by plot.py at 2017-08-17 03:41:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 11.68 Mbit/s
95th percentile per-packet one-way delay: 50.928 ms
Loss rate: 0.52%
-- Flow 1:
Average throughput: 11.68 Mbit/s
95th percentile per-packet one-way delay: 50.928 ms
Loss rate: 0.52%
```

Run 2: Report of KohoCC — Data Link



Run 3: Statistics of KohoCC

Start at: 2017-08-16 23:58:13

End at: 2017-08-16 23:58:43

Below is generated by plot.py at 2017-08-17 03:41:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 11.41 Mbit/s

95th percentile per-packet one-way delay: 50.628 ms

Loss rate: 0.35%

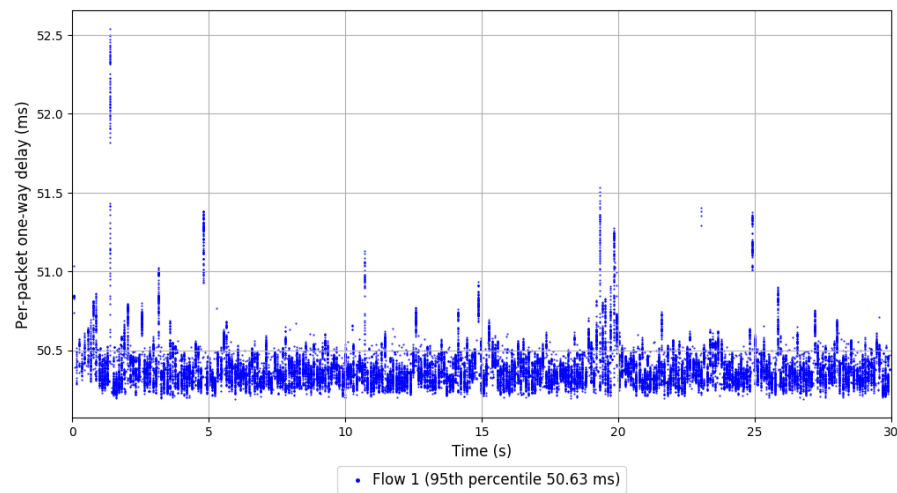
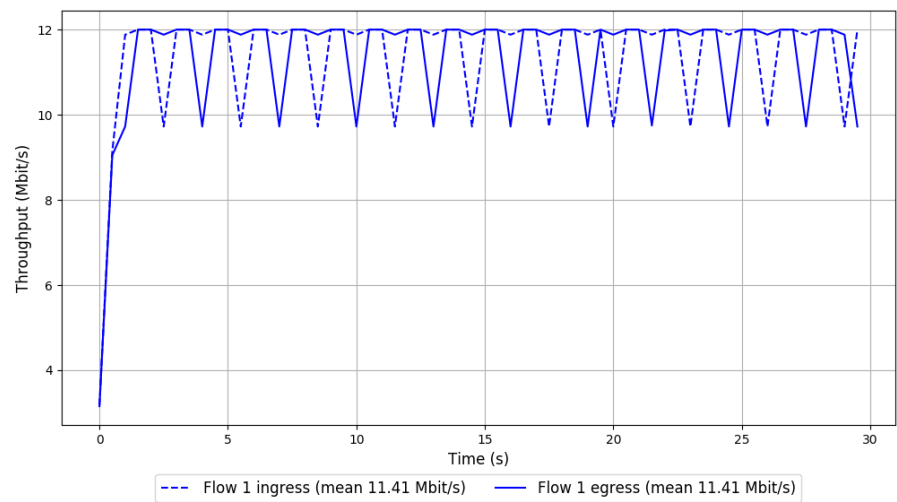
-- Flow 1:

Average throughput: 11.41 Mbit/s

95th percentile per-packet one-way delay: 50.628 ms

Loss rate: 0.35%

Run 3: Report of KohoCC — Data Link



Run 4: Statistics of KohoCC

Start at: 2017-08-17 00:08:29

End at: 2017-08-17 00:08:59

Below is generated by plot.py at 2017-08-17 03:41:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 11.35 Mbit/s

95th percentile per-packet one-way delay: 50.586 ms

Loss rate: 0.36%

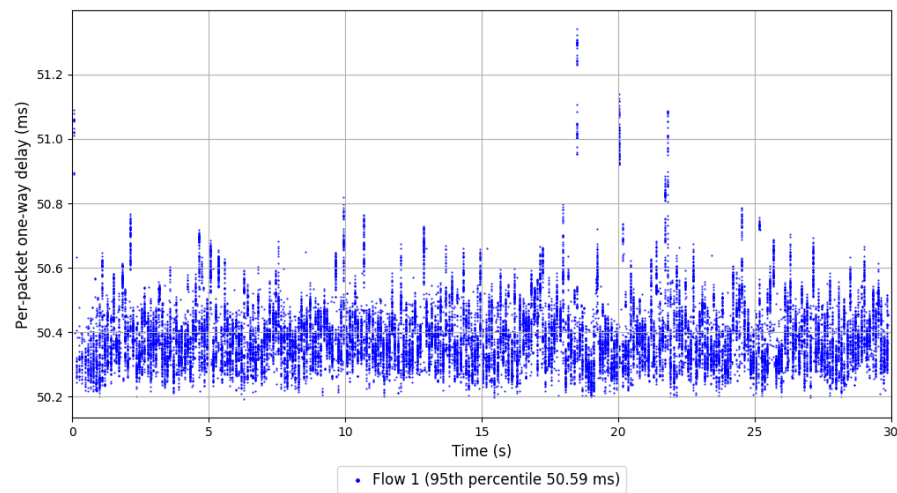
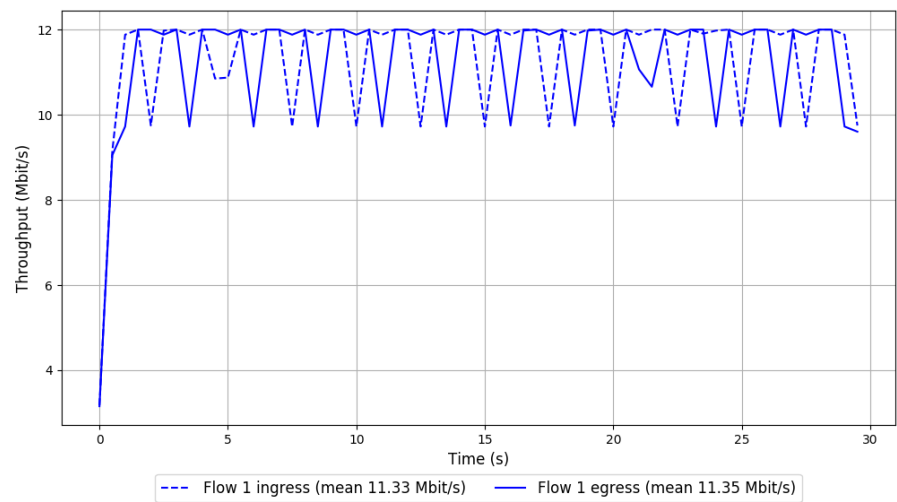
-- Flow 1:

Average throughput: 11.35 Mbit/s

95th percentile per-packet one-way delay: 50.586 ms

Loss rate: 0.36%

Run 4: Report of KohoCC — Data Link

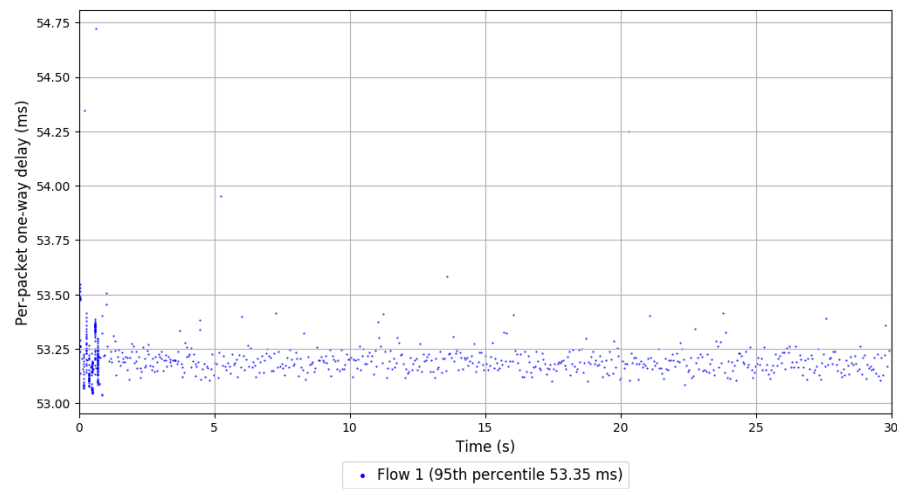
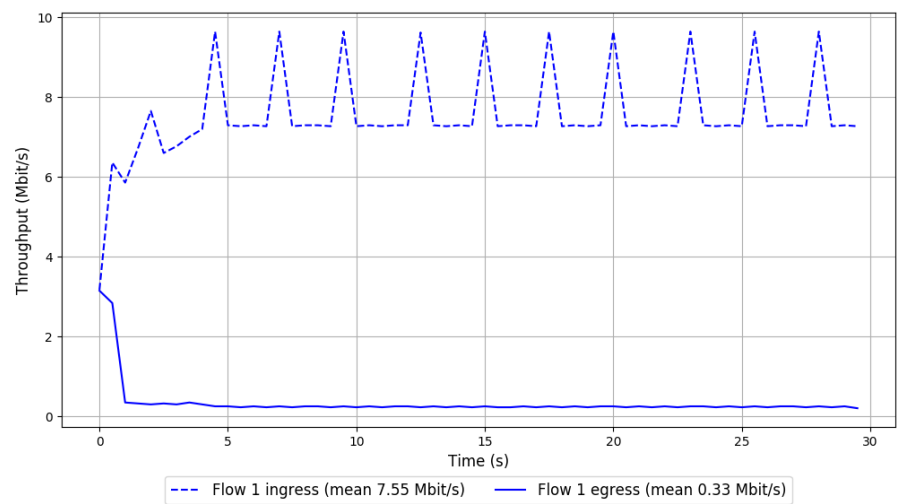


```
Run 5: Statistics of KohoCC

Start at: 2017-08-17 00:18:35
End at: 2017-08-17 00:19:05

# Below is generated by plot.py at 2017-08-17 03:41:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.33 Mbit/s
95th percentile per-packet one-way delay: 53.354 ms
Loss rate: 95.62%
-- Flow 1:
Average throughput: 0.33 Mbit/s
95th percentile per-packet one-way delay: 53.354 ms
Loss rate: 95.62%
```


Run 5: Report of KohoCC — Data Link



Run 6: Statistics of KohoCC

Start at: 2017-08-17 00:29:13

End at: 2017-08-17 00:29:43

Below is generated by plot.py at 2017-08-17 03:41:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.33 Mbit/s

95th percentile per-packet one-way delay: 54.283 ms

Loss rate: 95.64%

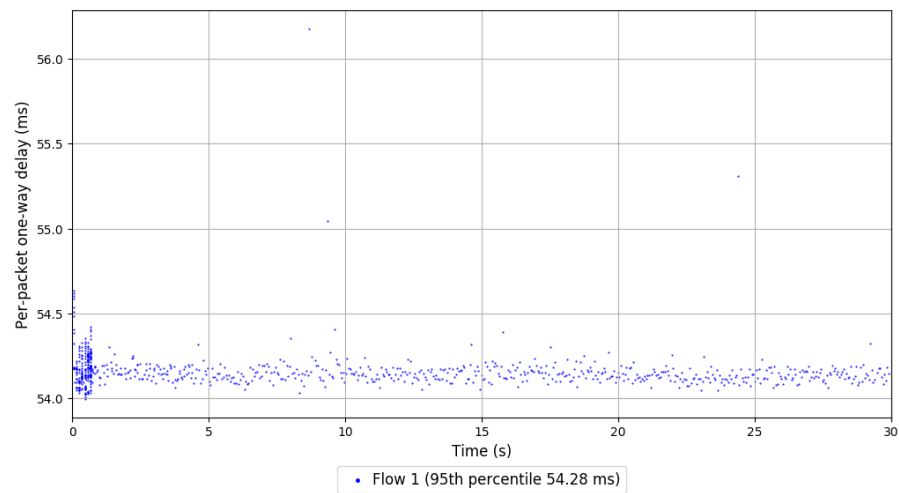
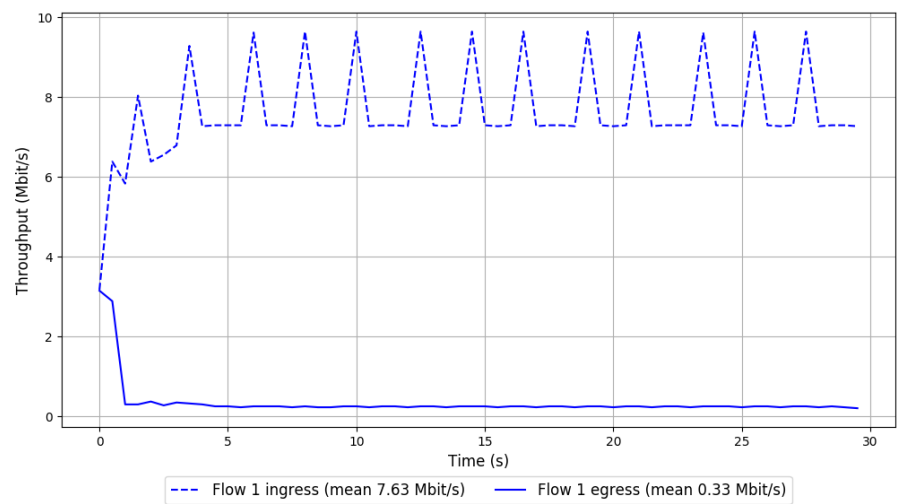
-- Flow 1:

Average throughput: 0.33 Mbit/s

95th percentile per-packet one-way delay: 54.283 ms

Loss rate: 95.64%

Run 6: Report of KohoCC — Data Link



Run 7: Statistics of KohoCC

Start at: 2017-08-17 00:38:48

End at: 2017-08-17 00:39:18

Below is generated by plot.py at 2017-08-17 03:41:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.33 Mbit/s

95th percentile per-packet one-way delay: 54.256 ms

Loss rate: 95.64%

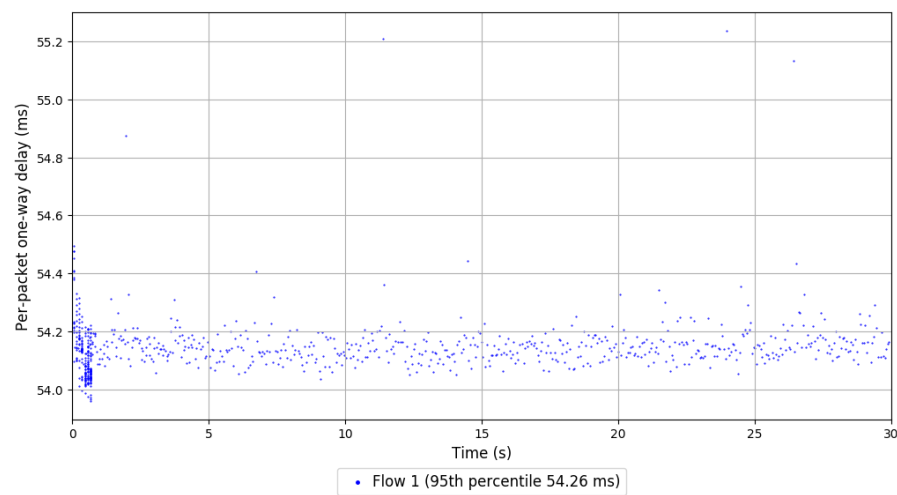
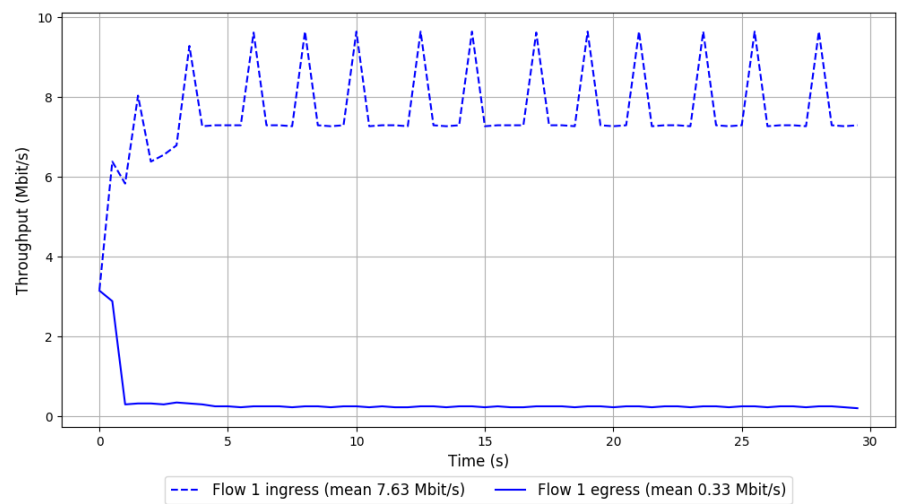
-- Flow 1:

Average throughput: 0.33 Mbit/s

95th percentile per-packet one-way delay: 54.256 ms

Loss rate: 95.64%

Run 7: Report of KohoCC — Data Link



Run 8: Statistics of KohoCC

Start at: 2017-08-17 00:48:50

End at: 2017-08-17 00:49:20

Below is generated by plot.py at 2017-08-17 03:42:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 11.42 Mbit/s

95th percentile per-packet one-way delay: 50.565 ms

Loss rate: 0.35%

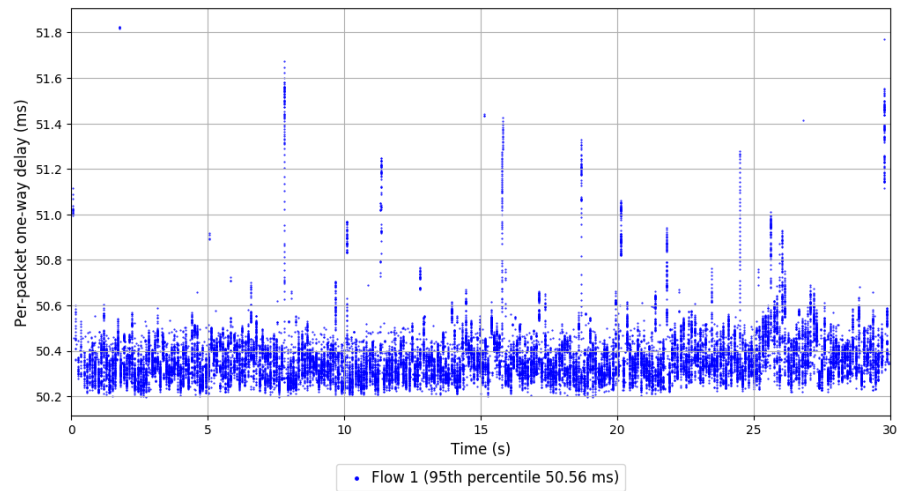
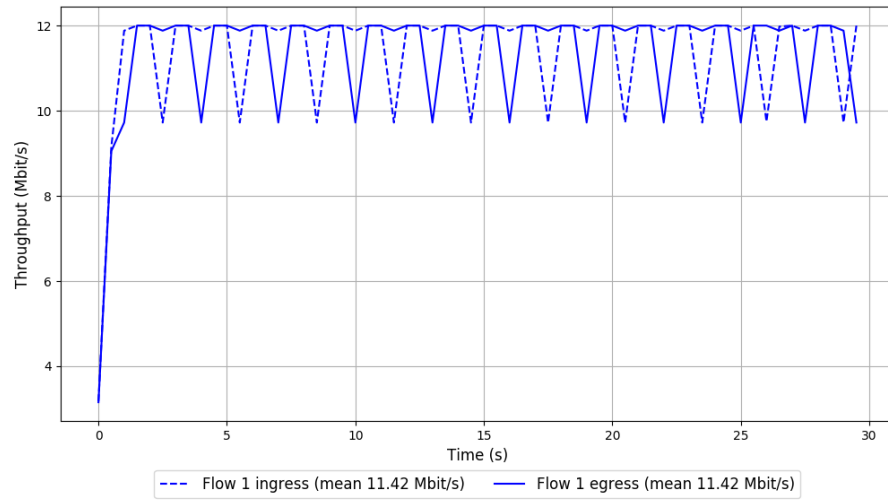
-- Flow 1:

Average throughput: 11.42 Mbit/s

95th percentile per-packet one-way delay: 50.565 ms

Loss rate: 0.35%

Run 8: Report of KohoCC — Data Link



Run 9: Statistics of KohoCC

Start at: 2017-08-17 00:59:12

End at: 2017-08-17 00:59:42

Below is generated by plot.py at 2017-08-17 03:42:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 11.36 Mbit/s

95th percentile per-packet one-way delay: 50.656 ms

Loss rate: 0.67%

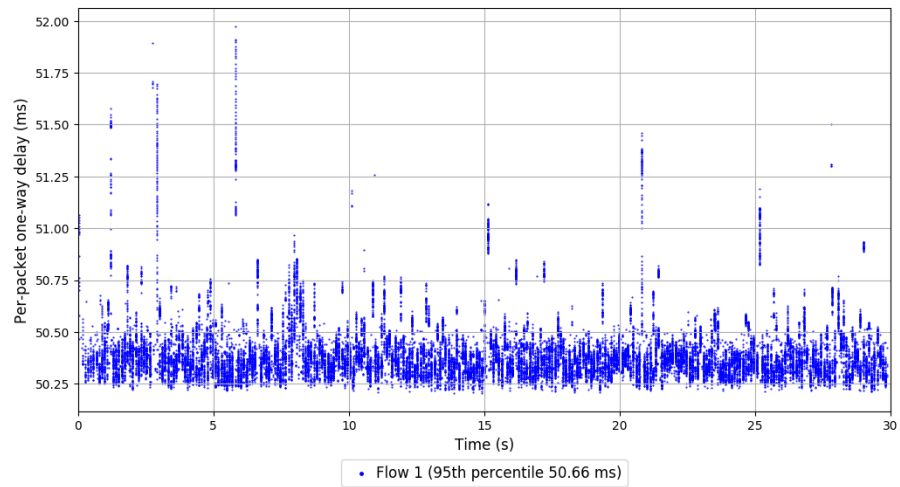
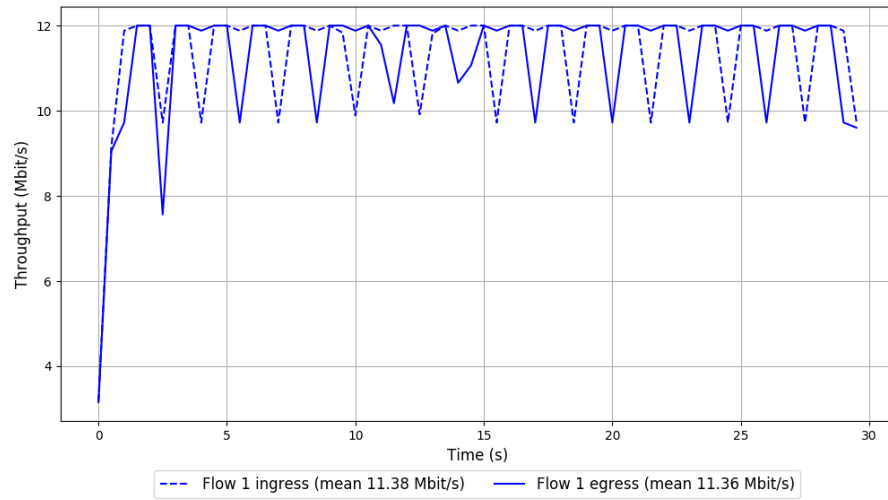
-- Flow 1:

Average throughput: 11.36 Mbit/s

95th percentile per-packet one-way delay: 50.656 ms

Loss rate: 0.67%

Run 9: Report of KohoCC — Data Link



Run 10: Statistics of KohoCC

Start at: 2017-08-17 01:09:05

End at: 2017-08-17 01:09:35

Below is generated by plot.py at 2017-08-17 03:42:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 11.70 Mbit/s

95th percentile per-packet one-way delay: 51.102 ms

Loss rate: 0.64%

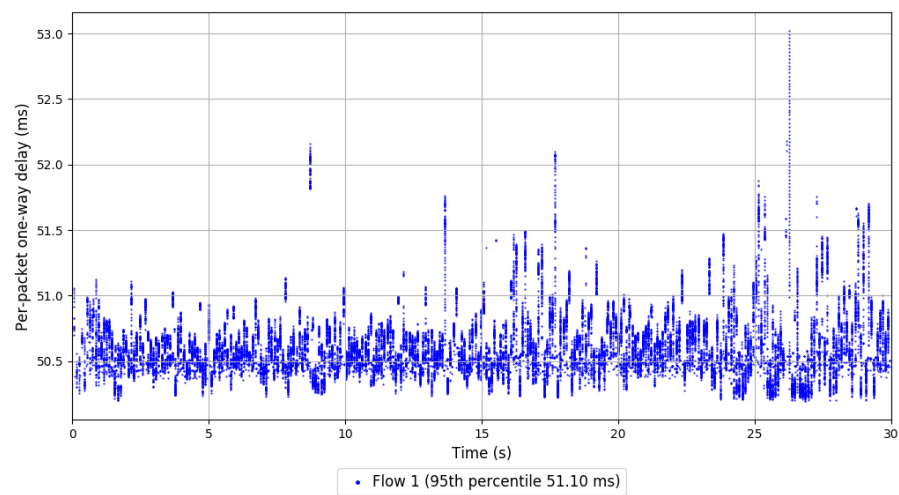
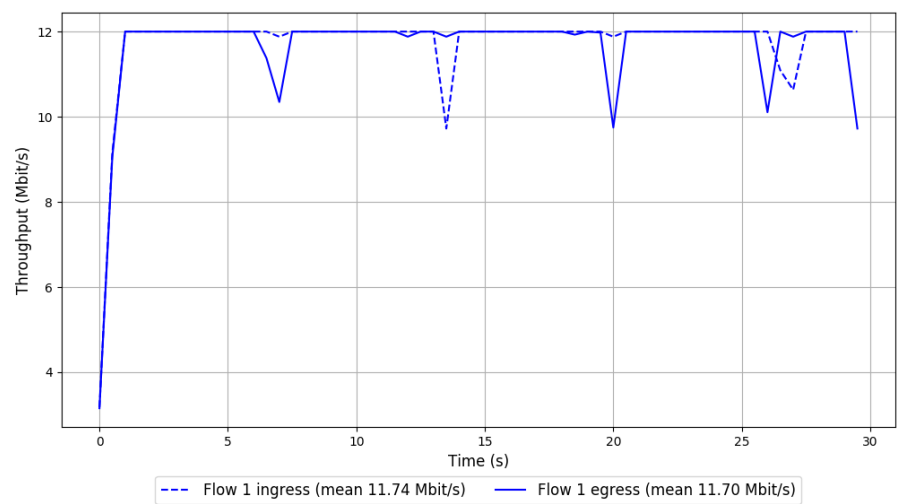
-- Flow 1:

Average throughput: 11.70 Mbit/s

95th percentile per-packet one-way delay: 51.102 ms

Loss rate: 0.64%

Run 10: Report of KohoCC — Data Link

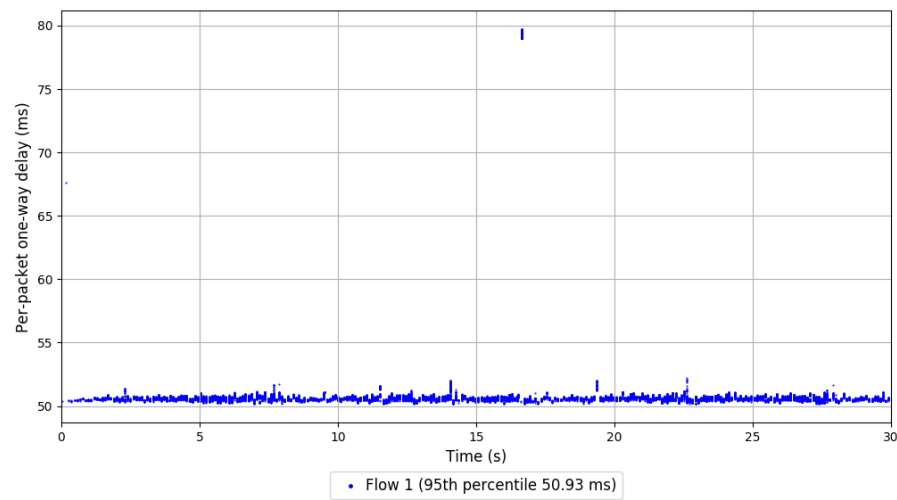
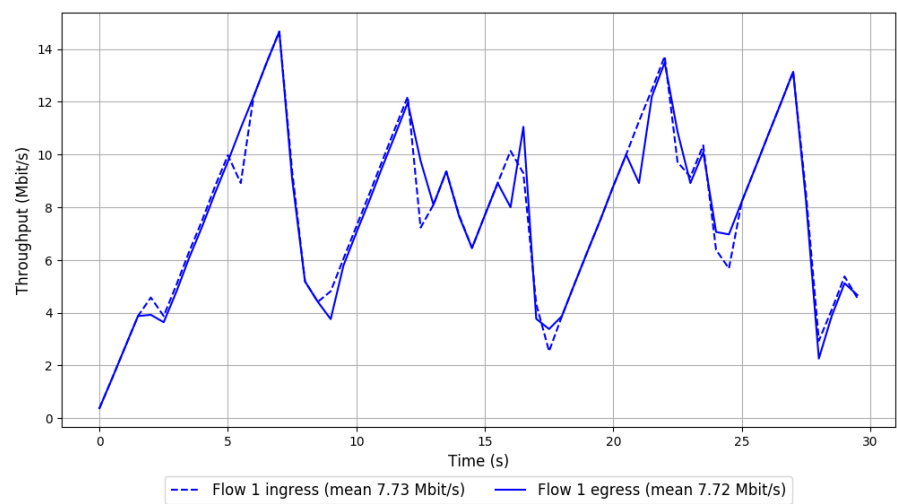


```
Run 1: Statistics of LEDBAT

Start at: 2017-08-16 23:43:33
End at: 2017-08-16 23:44:04

# Below is generated by plot.py at 2017-08-17 03:42:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 7.72 Mbit/s
95th percentile per-packet one-way delay: 50.931 ms
Loss rate: 0.44%
-- Flow 1:
Average throughput: 7.72 Mbit/s
95th percentile per-packet one-way delay: 50.931 ms
Loss rate: 0.44%
```

Run 1: Report of LEDBAT — Data Link

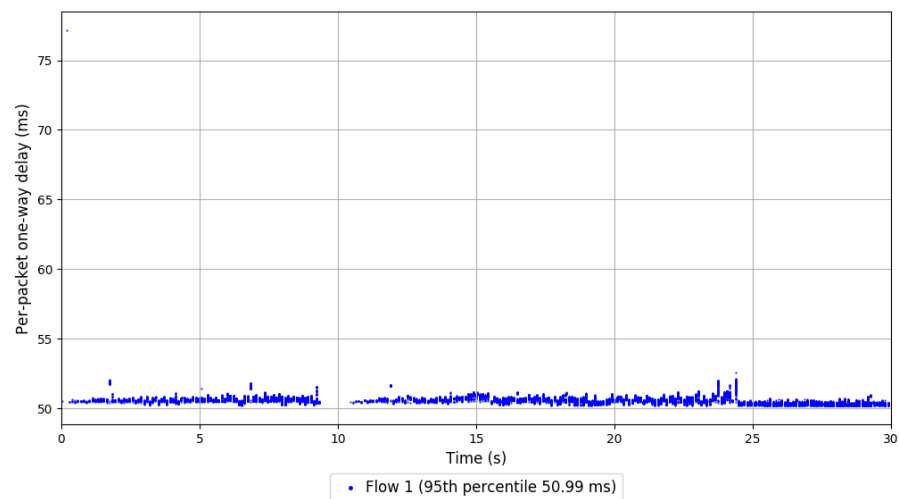
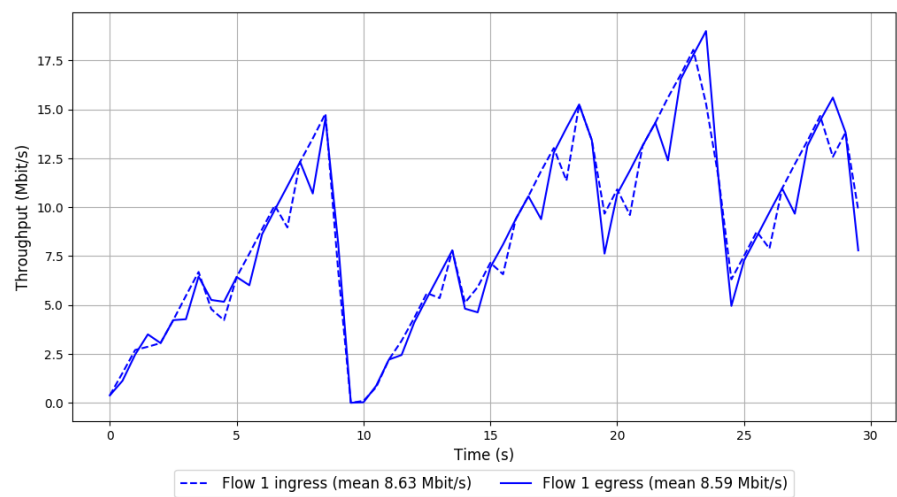


```
Run 2: Statistics of LEDBAT

Start at: 2017-08-16 23:53:38
End at: 2017-08-16 23:54:08

# Below is generated by plot.py at 2017-08-17 03:42:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 8.59 Mbit/s
95th percentile per-packet one-way delay: 50.987 ms
Loss rate: 0.80%
-- Flow 1:
Average throughput: 8.59 Mbit/s
95th percentile per-packet one-way delay: 50.987 ms
Loss rate: 0.80%
```

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2017-08-17 00:04:12

End at: 2017-08-17 00:04:42

Below is generated by plot.py at 2017-08-17 03:42:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.80 Mbit/s

95th percentile per-packet one-way delay: 54.495 ms

Loss rate: 5.89%

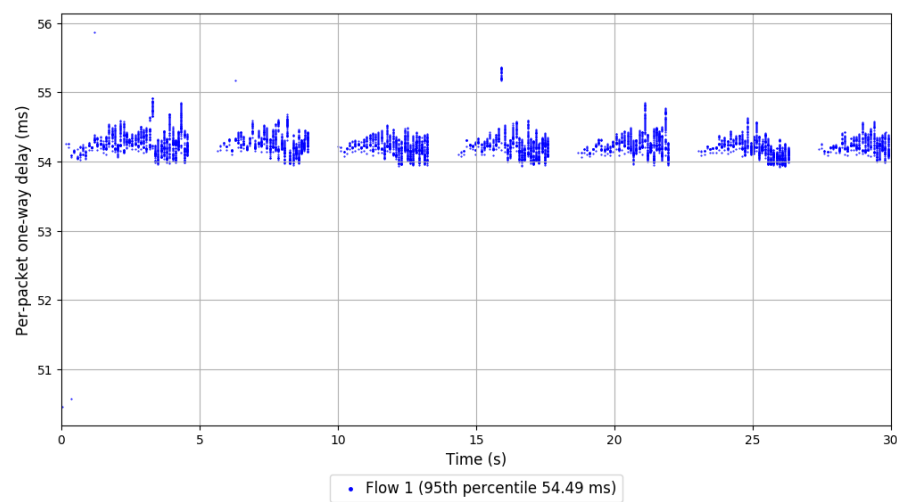
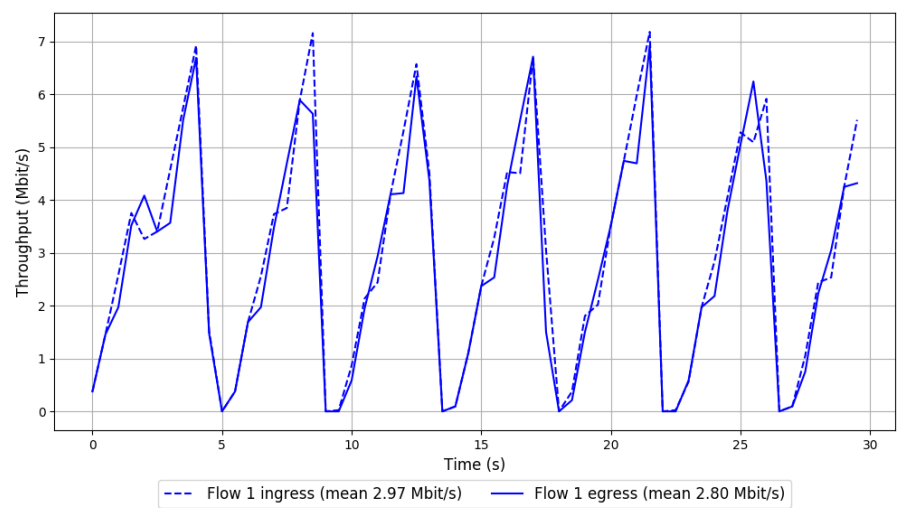
-- Flow 1:

Average throughput: 2.80 Mbit/s

95th percentile per-packet one-way delay: 54.495 ms

Loss rate: 5.89%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2017-08-17 00:14:35

End at: 2017-08-17 00:15:05

Below is generated by plot.py at 2017-08-17 03:42:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.44 Mbit/s

95th percentile per-packet one-way delay: 51.042 ms

Loss rate: 1.43%

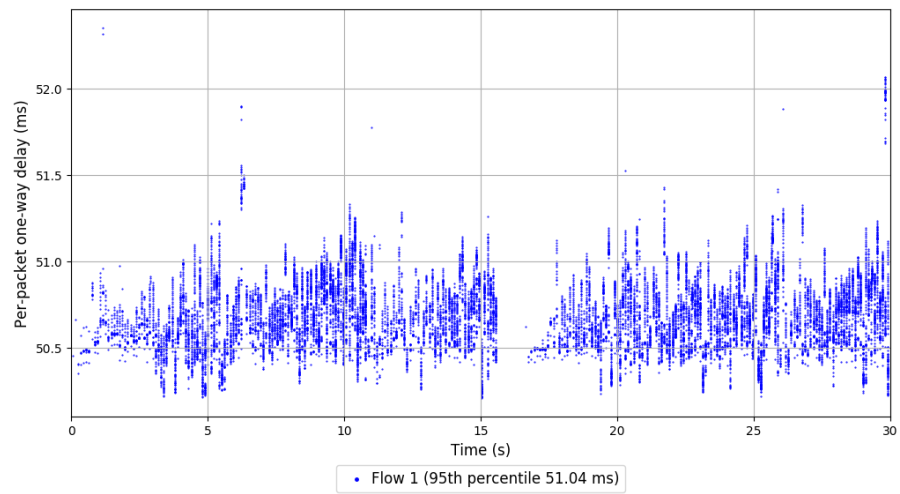
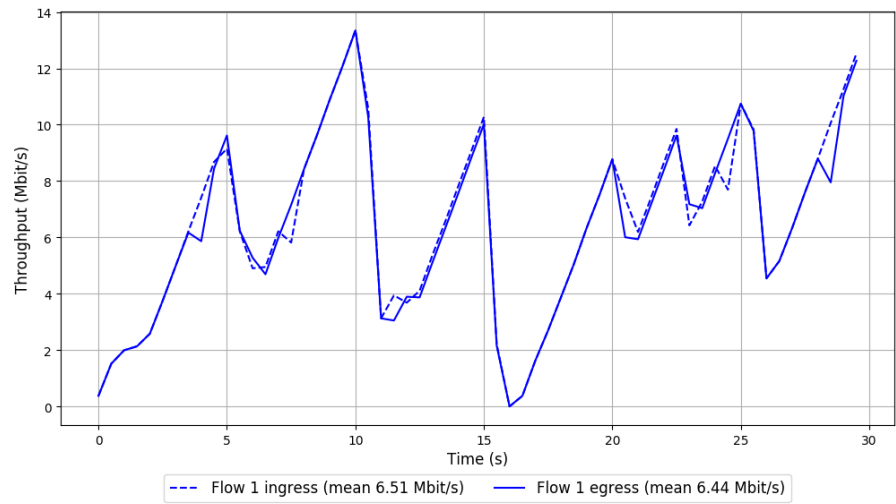
-- Flow 1:

Average throughput: 6.44 Mbit/s

95th percentile per-packet one-way delay: 51.042 ms

Loss rate: 1.43%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2017-08-17 00:24:50

End at: 2017-08-17 00:25:20

Below is generated by plot.py at 2017-08-17 03:42:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.93 Mbit/s

95th percentile per-packet one-way delay: 54.191 ms

Loss rate: 5.15%

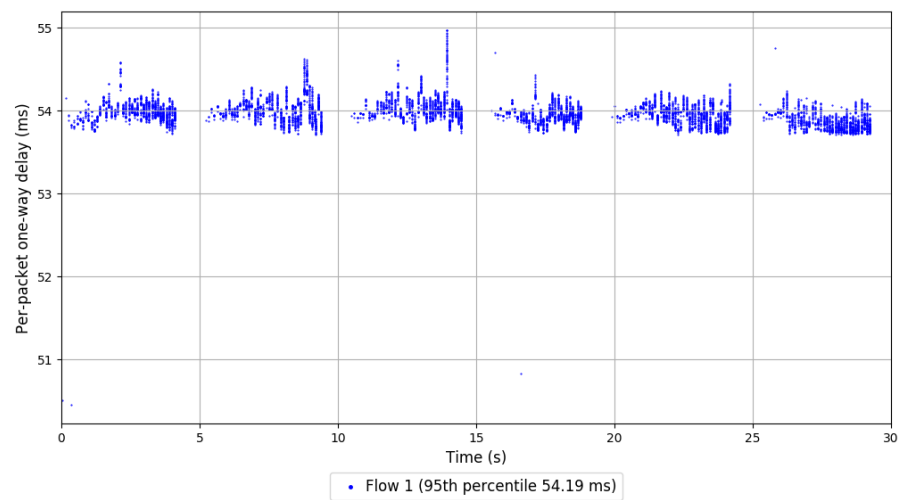
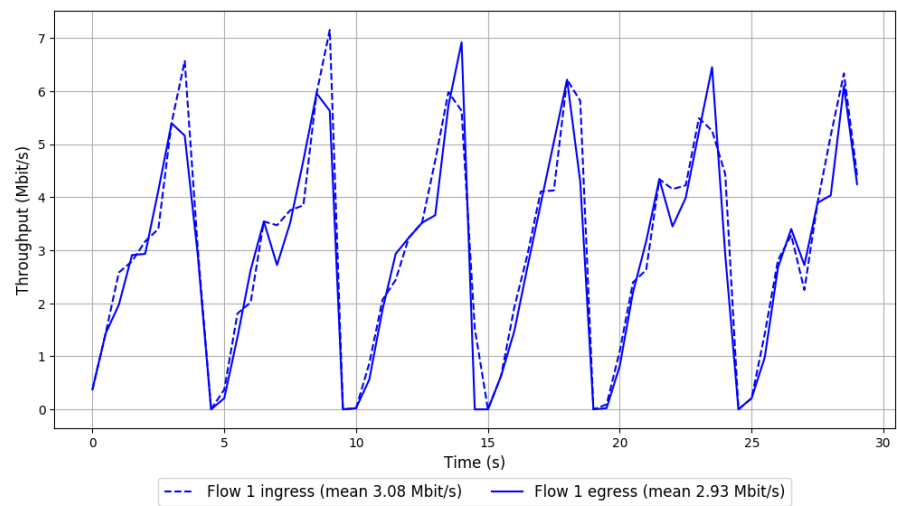
-- Flow 1:

Average throughput: 2.93 Mbit/s

95th percentile per-packet one-way delay: 54.191 ms

Loss rate: 5.15%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2017-08-17 00:34:57

End at: 2017-08-17 00:35:27

Below is generated by plot.py at 2017-08-17 03:42:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.83 Mbit/s

95th percentile per-packet one-way delay: 51.012 ms

Loss rate: 0.53%

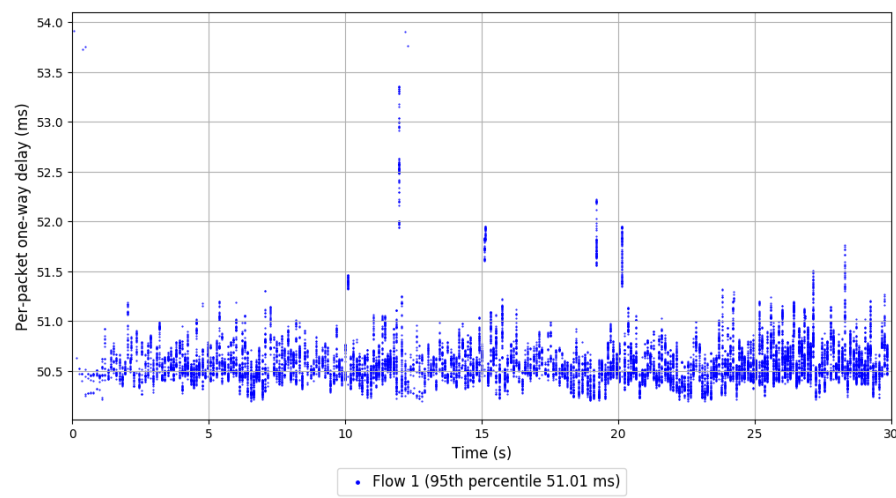
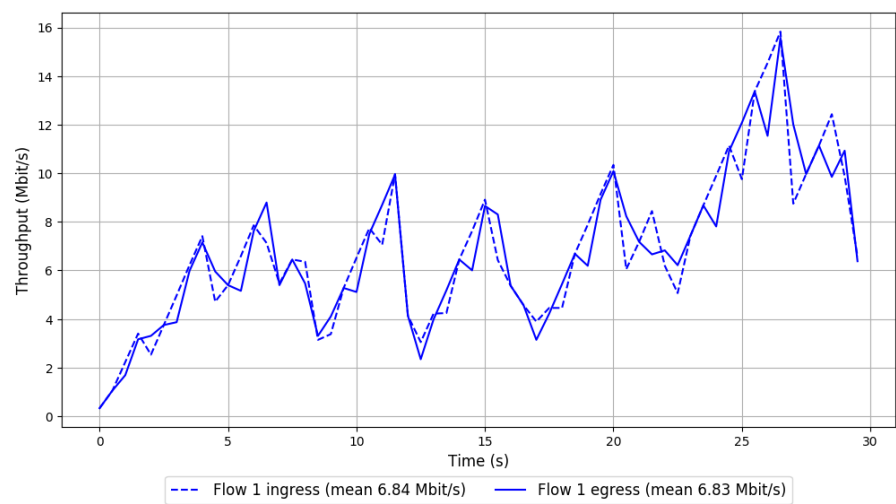
-- Flow 1:

Average throughput: 6.83 Mbit/s

95th percentile per-packet one-way delay: 51.012 ms

Loss rate: 0.53%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2017-08-17 00:44:51

End at: 2017-08-17 00:45:21

Below is generated by plot.py at 2017-08-17 03:42:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.44 Mbit/s

95th percentile per-packet one-way delay: 50.928 ms

Loss rate: 1.11%

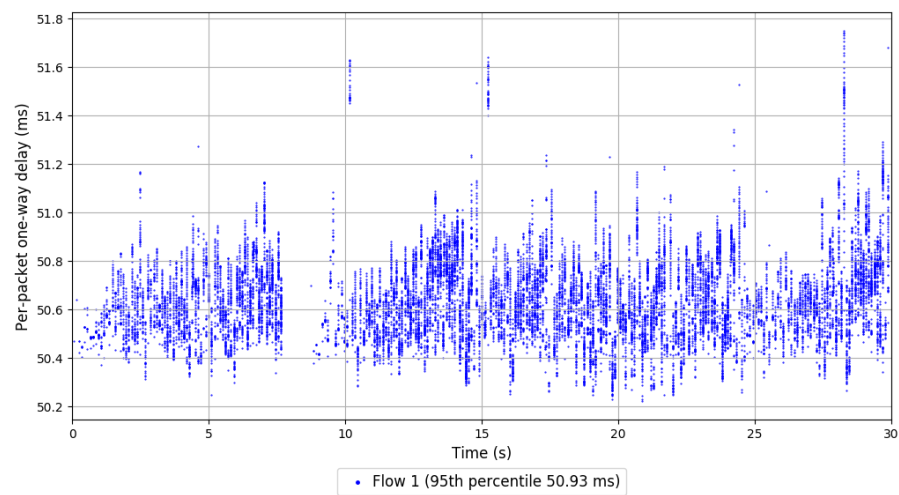
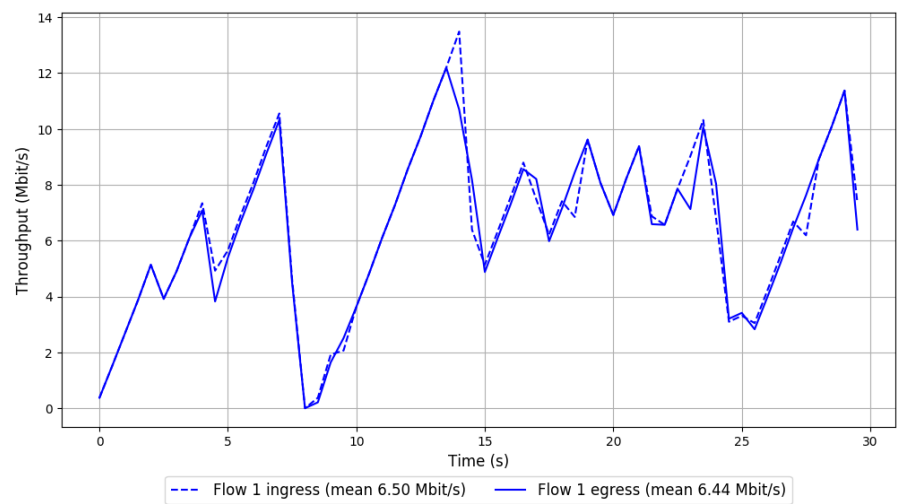
-- Flow 1:

Average throughput: 6.44 Mbit/s

95th percentile per-packet one-way delay: 50.928 ms

Loss rate: 1.11%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2017-08-17 00:54:46

End at: 2017-08-17 00:55:16

Below is generated by plot.py at 2017-08-17 03:42:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 8.22 Mbit/s

95th percentile per-packet one-way delay: 50.980 ms

Loss rate: 1.08%

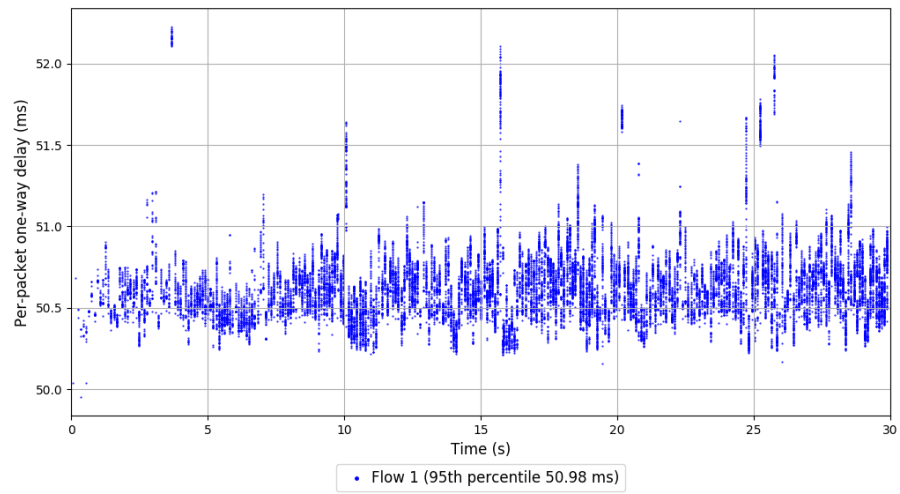
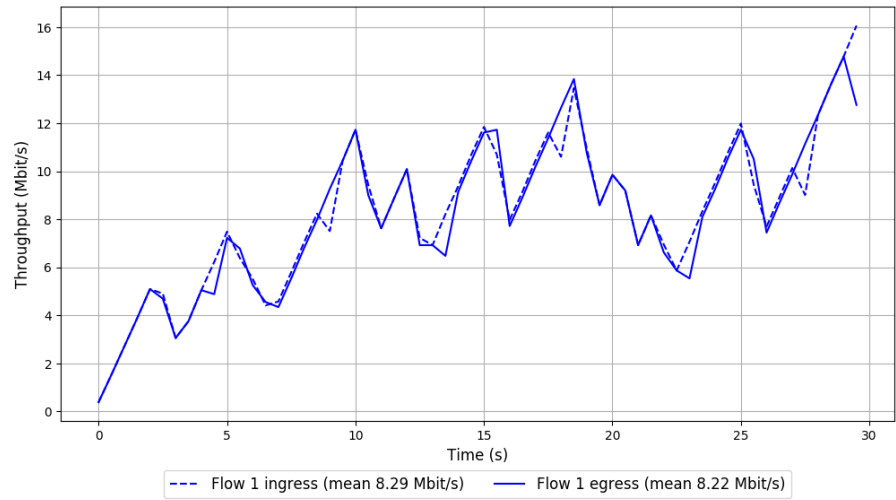
-- Flow 1:

Average throughput: 8.22 Mbit/s

95th percentile per-packet one-way delay: 50.980 ms

Loss rate: 1.08%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2017-08-17 01:05:16

End at: 2017-08-17 01:05:46

Below is generated by plot.py at 2017-08-17 03:42:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.96 Mbit/s

95th percentile per-packet one-way delay: 53.494 ms

Loss rate: 4.84%

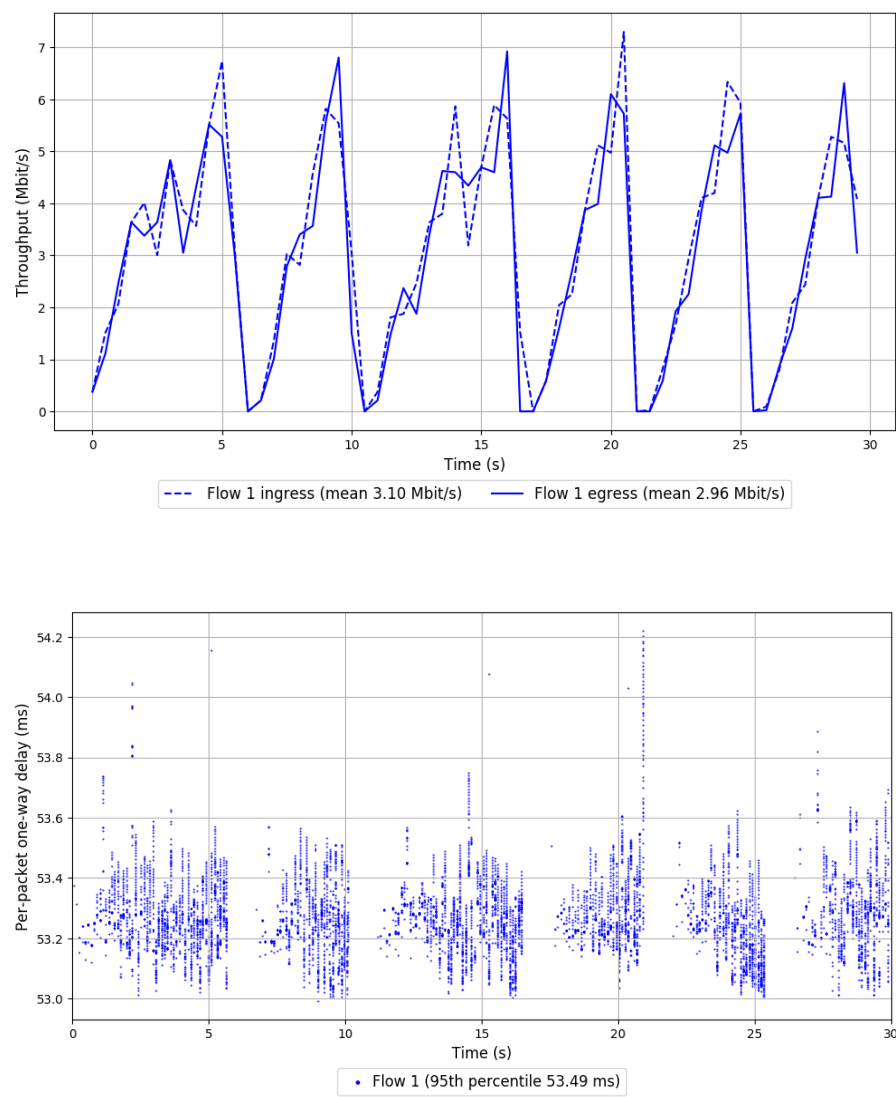
-- Flow 1:

Average throughput: 2.96 Mbit/s

95th percentile per-packet one-way delay: 53.494 ms

Loss rate: 4.84%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2017-08-17 01:15:25

End at: 2017-08-17 01:15:55

Below is generated by plot.py at 2017-08-17 03:42:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.98 Mbit/s

95th percentile per-packet one-way delay: 51.218 ms

Loss rate: 0.96%

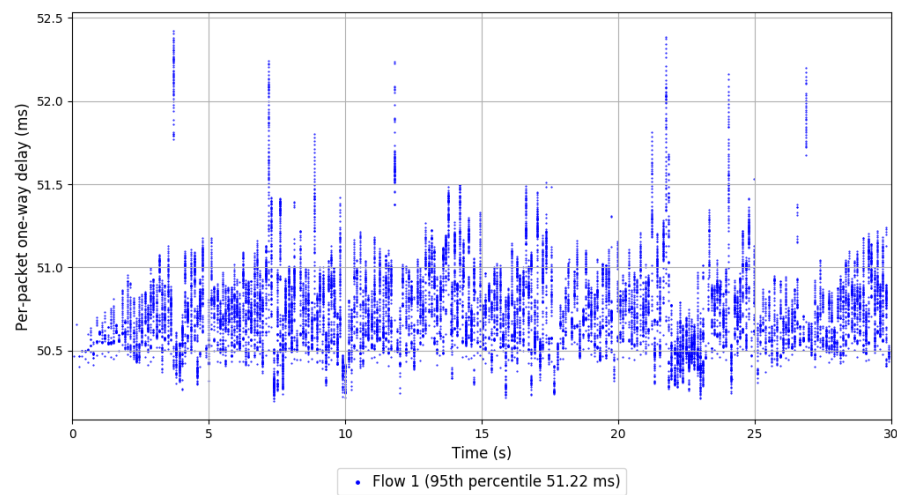
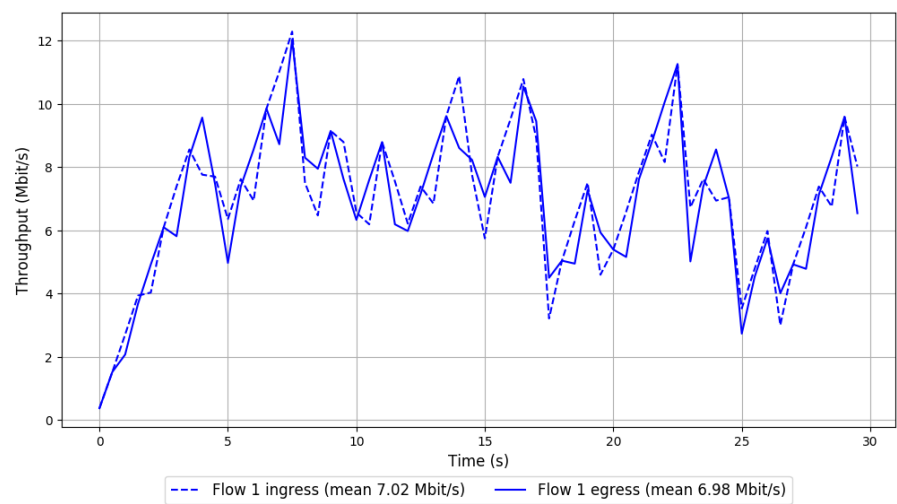
-- Flow 1:

Average throughput: 6.98 Mbit/s

95th percentile per-packet one-way delay: 51.218 ms

Loss rate: 0.96%

Run 10: Report of LEDBAT — Data Link

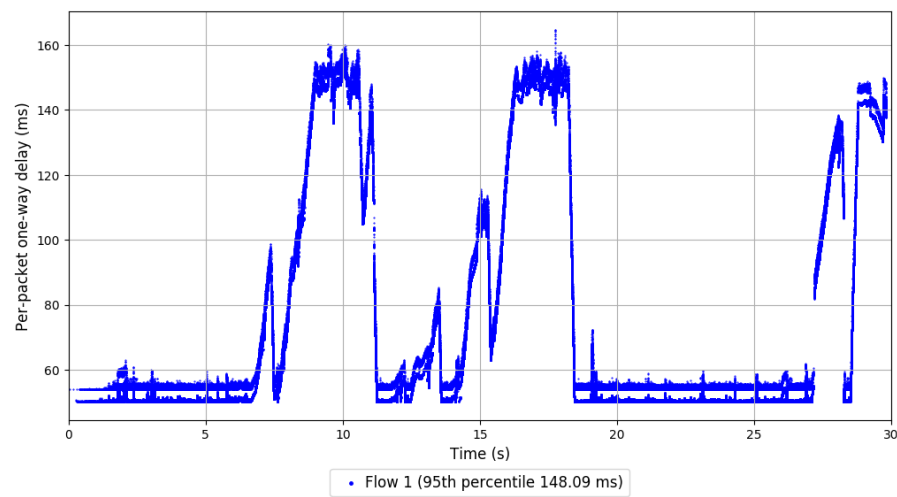
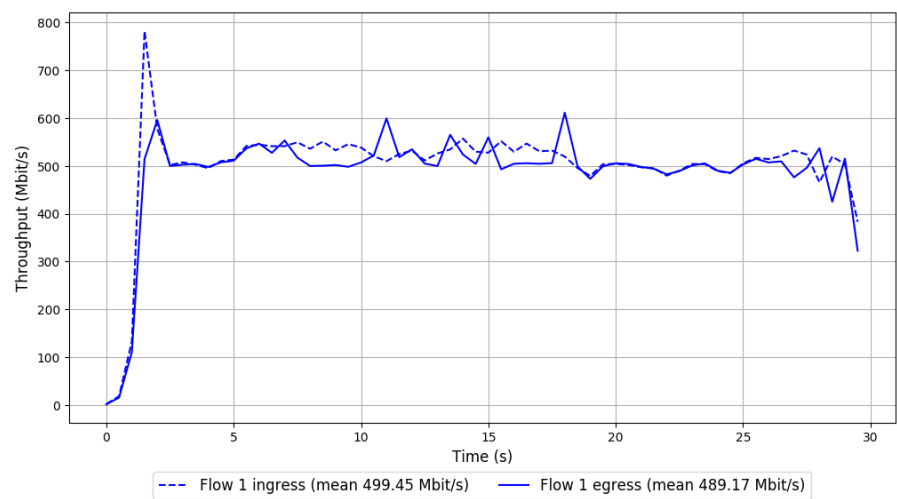


```
Run 1: Statistics of PCC

Start at: 2017-08-16 23:37:53
End at: 2017-08-16 23:38:23

# Below is generated by plot.py at 2017-08-17 03:43:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 489.17 Mbit/s
95th percentile per-packet one-way delay: 148.087 ms
Loss rate: 2.42%
-- Flow 1:
Average throughput: 489.17 Mbit/s
95th percentile per-packet one-way delay: 148.087 ms
Loss rate: 2.42%
```


Run 1: Report of PCC — Data Link

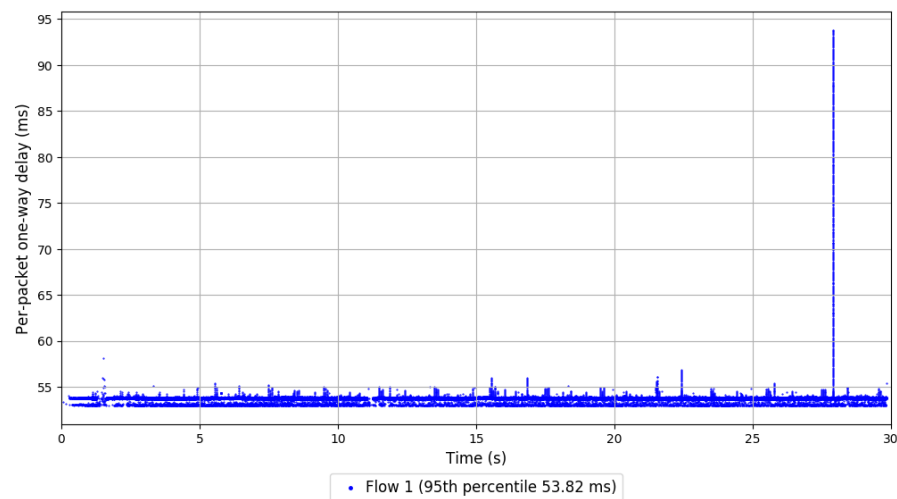
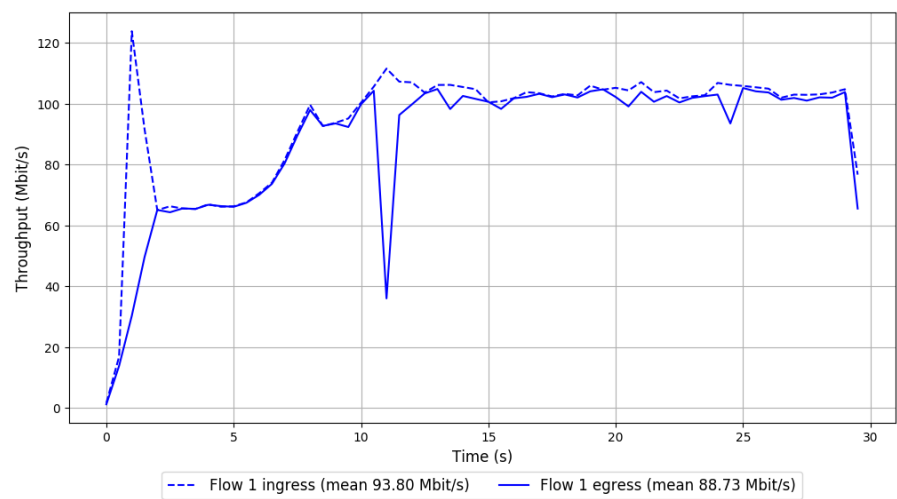


```
Run 2: Statistics of PCC

Start at: 2017-08-16 23:48:10
End at: 2017-08-16 23:48:40

# Below is generated by plot.py at 2017-08-17 03:43:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 88.73 Mbit/s
95th percentile per-packet one-way delay: 53.824 ms
Loss rate: 5.78%
-- Flow 1:
Average throughput: 88.73 Mbit/s
95th percentile per-packet one-way delay: 53.824 ms
Loss rate: 5.78%
```

Run 2: Report of PCC — Data Link



Run 3: Statistics of PCC

Start at: 2017-08-16 23:58:51

End at: 2017-08-16 23:59:21

Below is generated by plot.py at 2017-08-17 03:43:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 342.63 Mbit/s

95th percentile per-packet one-way delay: 147.227 ms

Loss rate: 5.69%

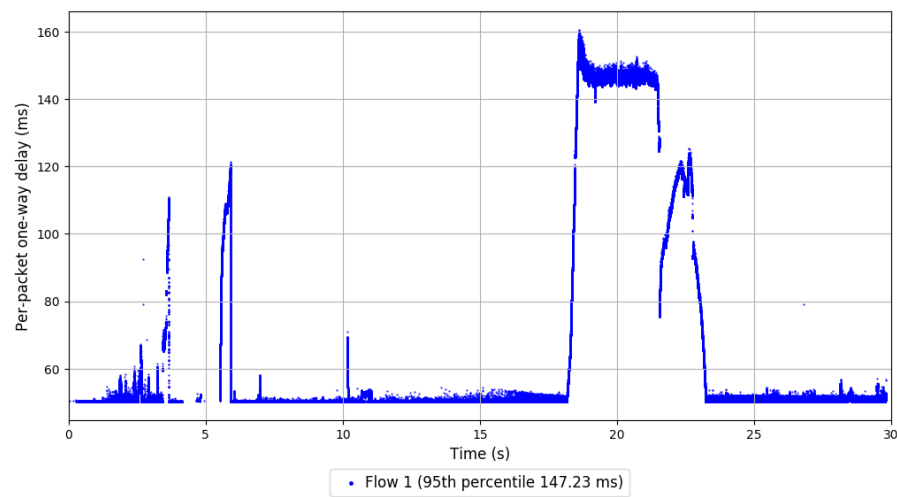
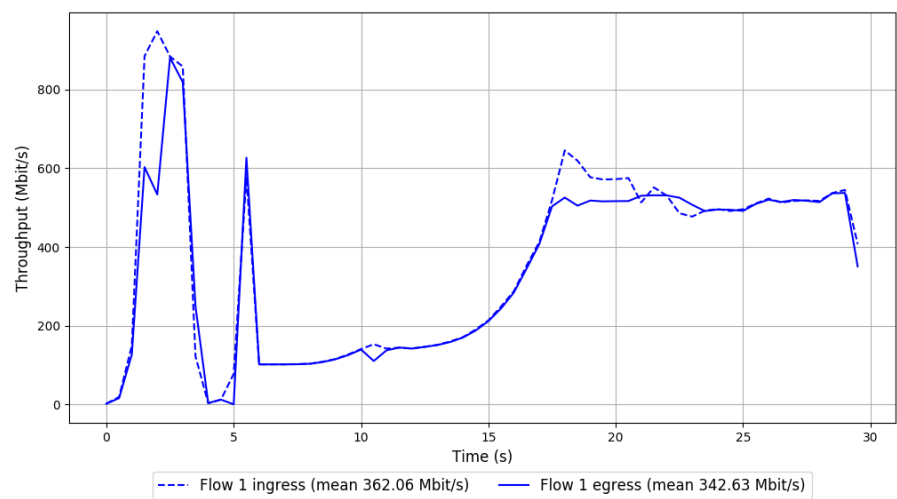
-- Flow 1:

Average throughput: 342.63 Mbit/s

95th percentile per-packet one-way delay: 147.227 ms

Loss rate: 5.69%

Run 3: Report of PCC — Data Link



Run 4: Statistics of PCC

Start at: 2017-08-17 00:09:07

End at: 2017-08-17 00:09:37

Below is generated by plot.py at 2017-08-17 03:45:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 490.72 Mbit/s

95th percentile per-packet one-way delay: 147.021 ms

Loss rate: 3.10%

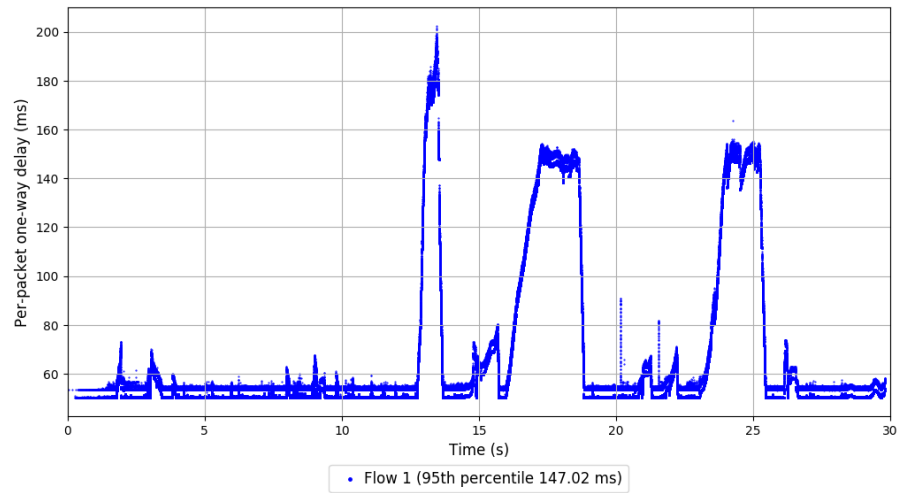
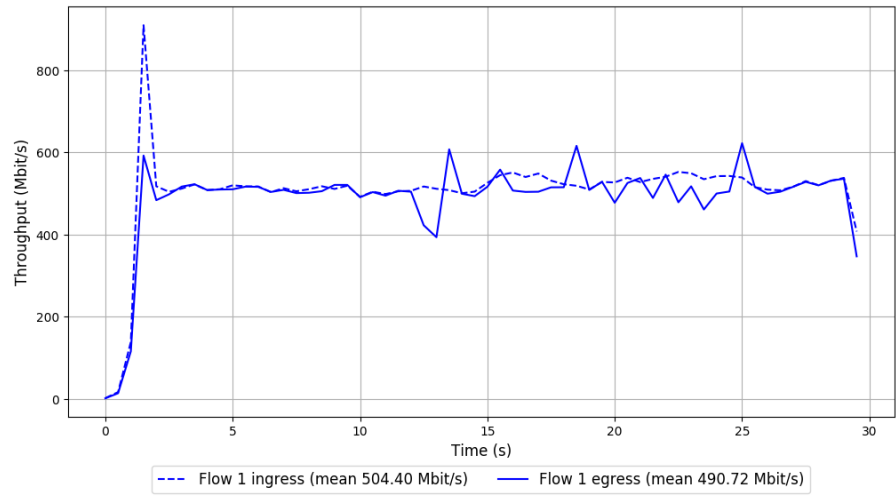
-- Flow 1:

Average throughput: 490.72 Mbit/s

95th percentile per-packet one-way delay: 147.021 ms

Loss rate: 3.10%

Run 4: Report of PCC — Data Link



Run 5: Statistics of PCC

Start at: 2017-08-17 00:19:13

End at: 2017-08-17 00:19:43

Below is generated by plot.py at 2017-08-17 03:45:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 504.75 Mbit/s

95th percentile per-packet one-way delay: 55.485 ms

Loss rate: 1.94%

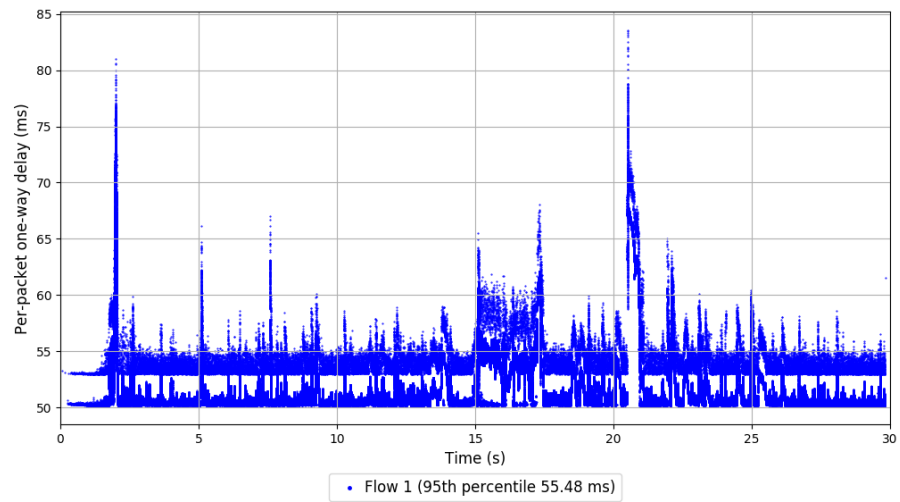
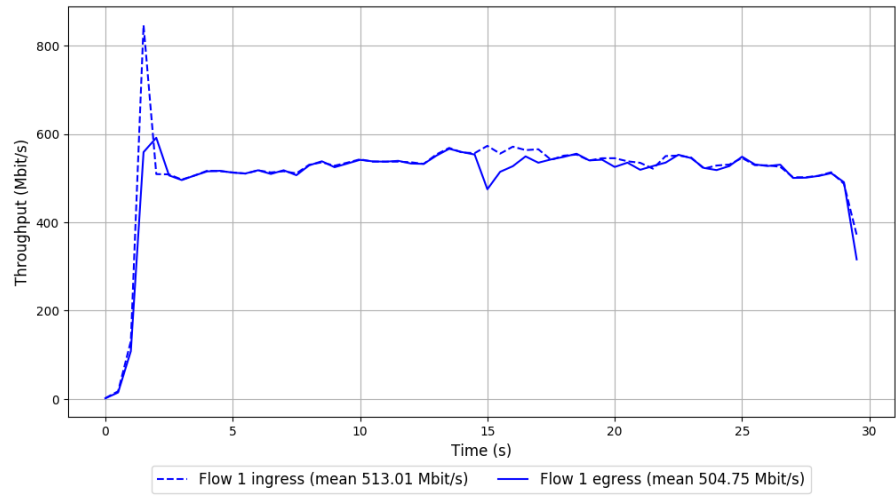
-- Flow 1:

Average throughput: 504.75 Mbit/s

95th percentile per-packet one-way delay: 55.485 ms

Loss rate: 1.94%

Run 5: Report of PCC — Data Link



Run 6: Statistics of PCC

Start at: 2017-08-17 00:29:51

End at: 2017-08-17 00:30:21

Below is generated by plot.py at 2017-08-17 03:45:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 119.87 Mbit/s

95th percentile per-packet one-way delay: 53.119 ms

Loss rate: 7.07%

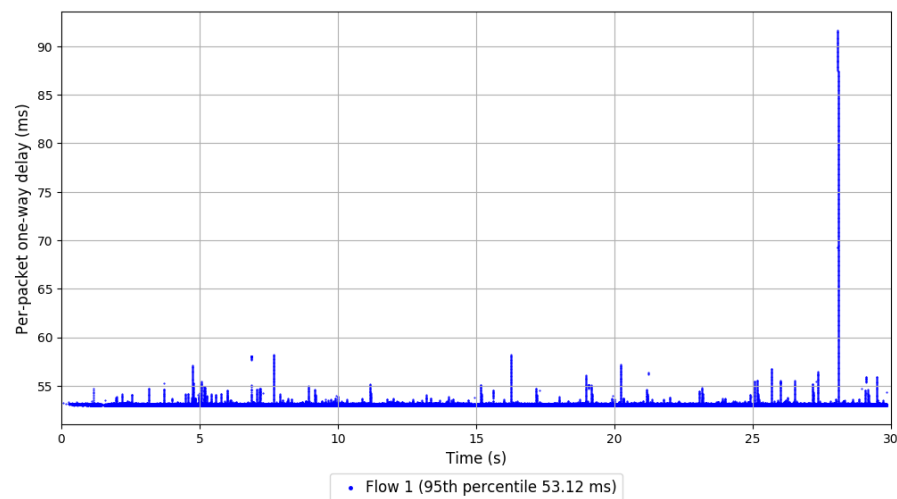
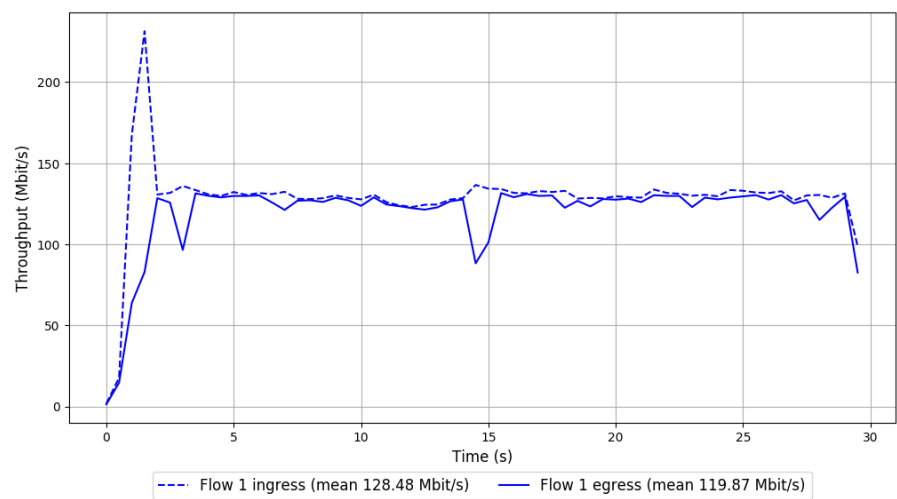
-- Flow 1:

Average throughput: 119.87 Mbit/s

95th percentile per-packet one-way delay: 53.119 ms

Loss rate: 7.07%

Run 6: Report of PCC — Data Link



Run 7: Statistics of PCC

Start at: 2017-08-17 00:39:25

End at: 2017-08-17 00:39:55

Below is generated by plot.py at 2017-08-17 03:46:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 121.15 Mbit/s

95th percentile per-packet one-way delay: 53.177 ms

Loss rate: 3.92%

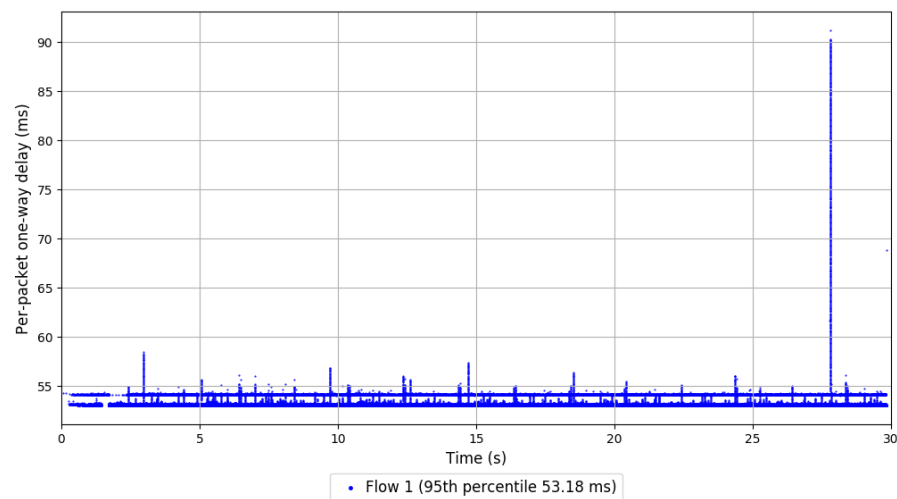
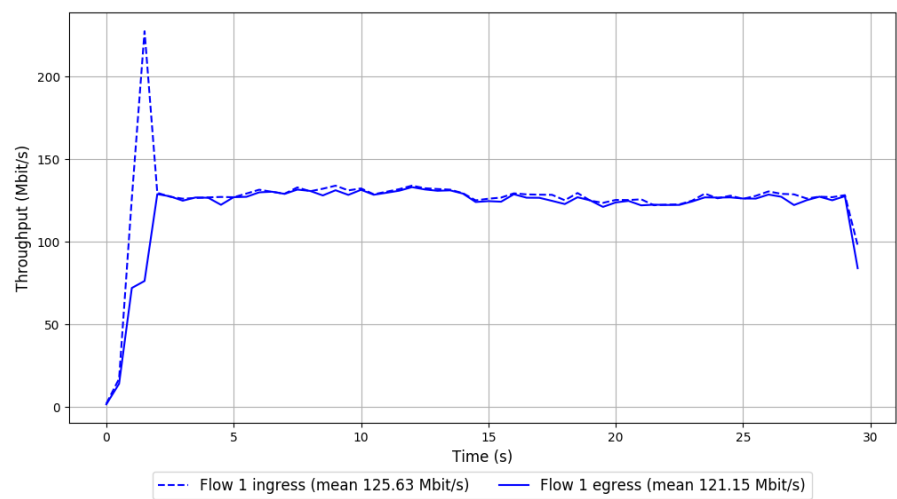
-- Flow 1:

Average throughput: 121.15 Mbit/s

95th percentile per-packet one-way delay: 53.177 ms

Loss rate: 3.92%

Run 7: Report of PCC — Data Link



Run 8: Statistics of PCC

Start at: 2017-08-17 00:49:28

End at: 2017-08-17 00:49:58

Below is generated by plot.py at 2017-08-17 03:46:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 119.06 Mbit/s

95th percentile per-packet one-way delay: 53.165 ms

Loss rate: 7.34%

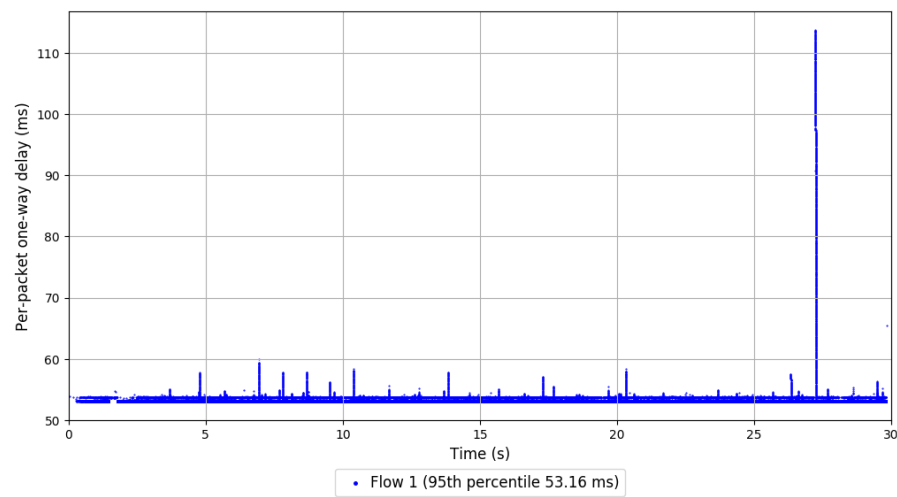
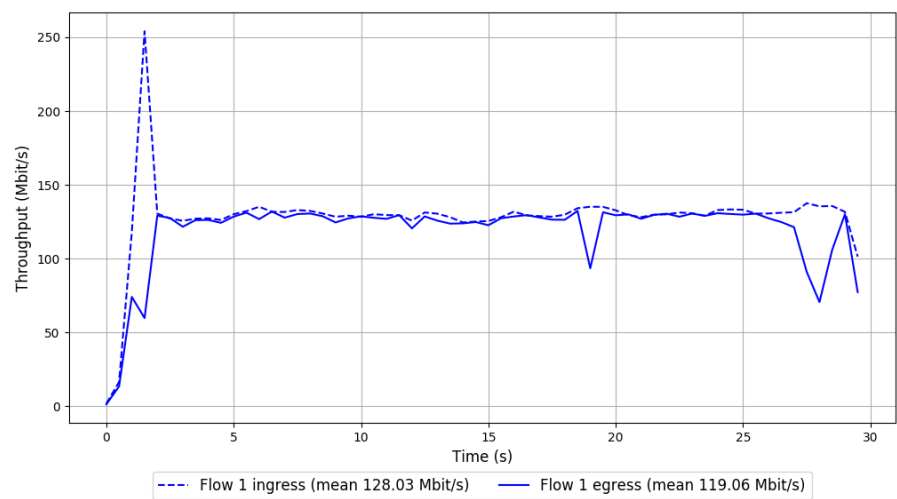
-- Flow 1:

Average throughput: 119.06 Mbit/s

95th percentile per-packet one-way delay: 53.165 ms

Loss rate: 7.34%

Run 8: Report of PCC — Data Link



Run 9: Statistics of PCC

Start at: 2017-08-17 00:59:50

End at: 2017-08-17 01:00:20

Below is generated by plot.py at 2017-08-17 03:46:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 118.56 Mbit/s

95th percentile per-packet one-way delay: 53.173 ms

Loss rate: 8.06%

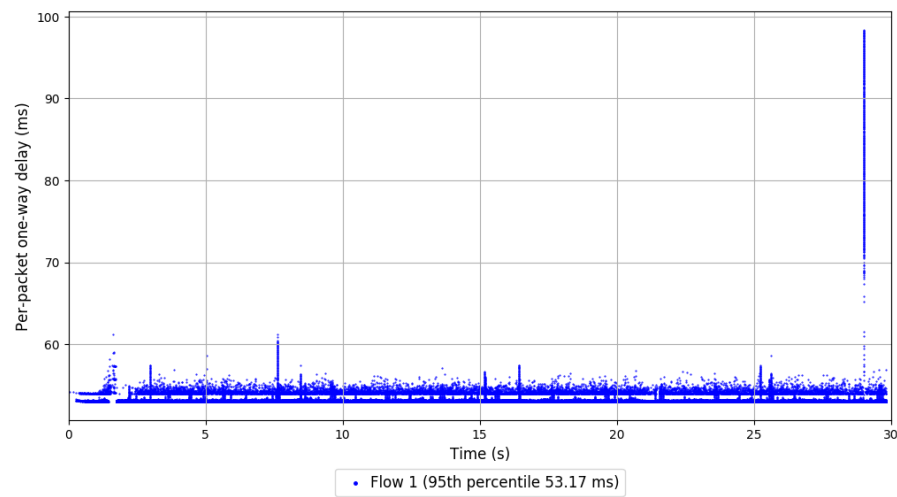
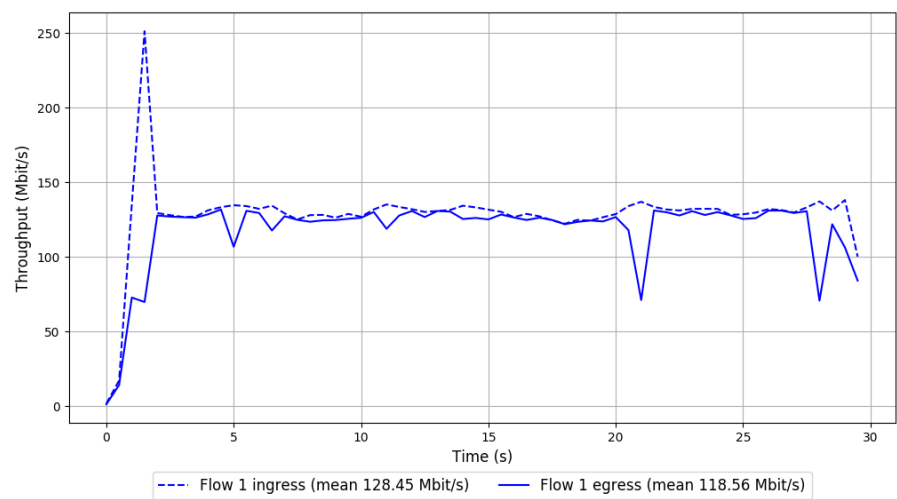
-- Flow 1:

Average throughput: 118.56 Mbit/s

95th percentile per-packet one-way delay: 53.173 ms

Loss rate: 8.06%

Run 9: Report of PCC — Data Link



Run 10: Statistics of PCC

Start at: 2017-08-17 01:09:43

End at: 2017-08-17 01:10:13

Below is generated by plot.py at 2017-08-17 03:47:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 511.88 Mbit/s

95th percentile per-packet one-way delay: 140.235 ms

Loss rate: 1.89%

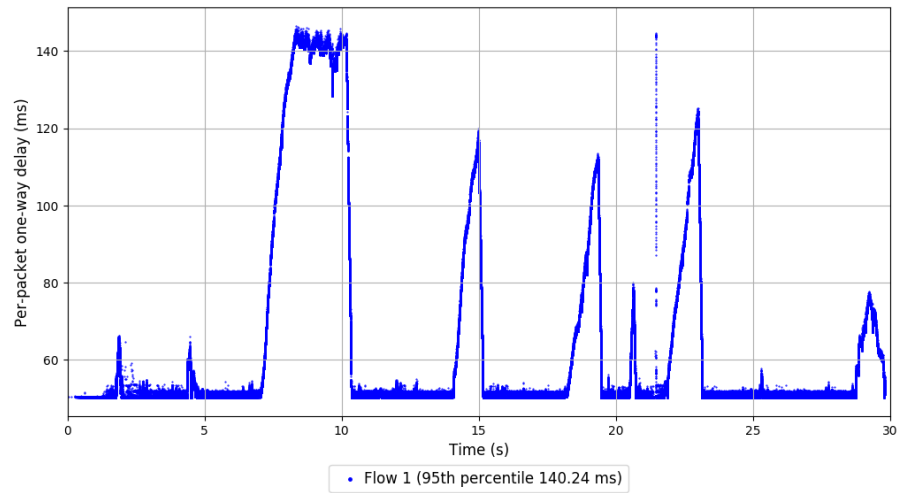
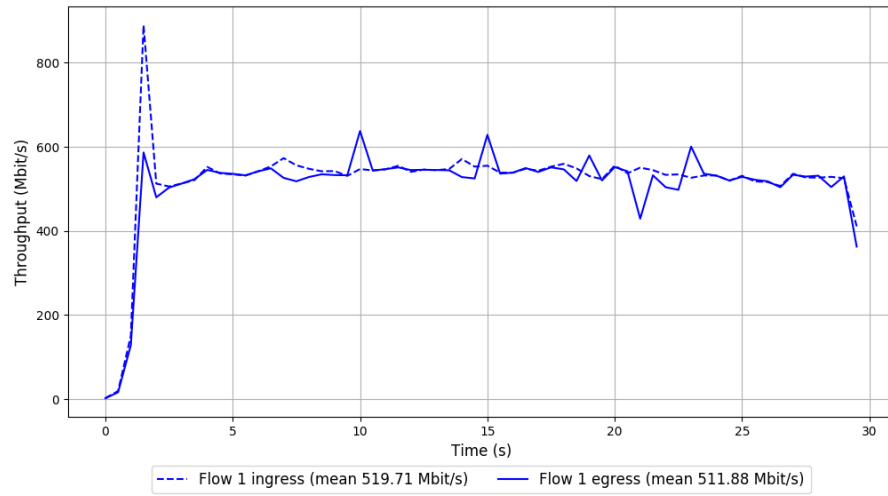
-- Flow 1:

Average throughput: 511.88 Mbit/s

95th percentile per-packet one-way delay: 140.235 ms

Loss rate: 1.89%

Run 10: Report of PCC — Data Link

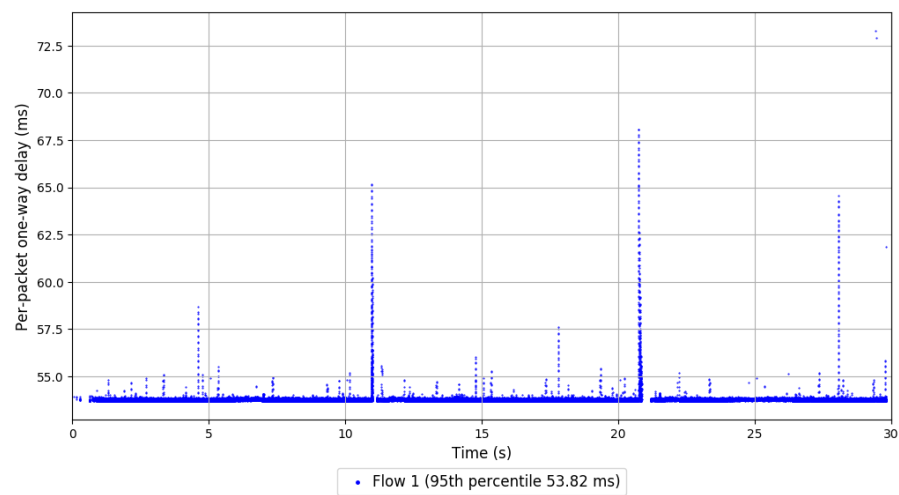
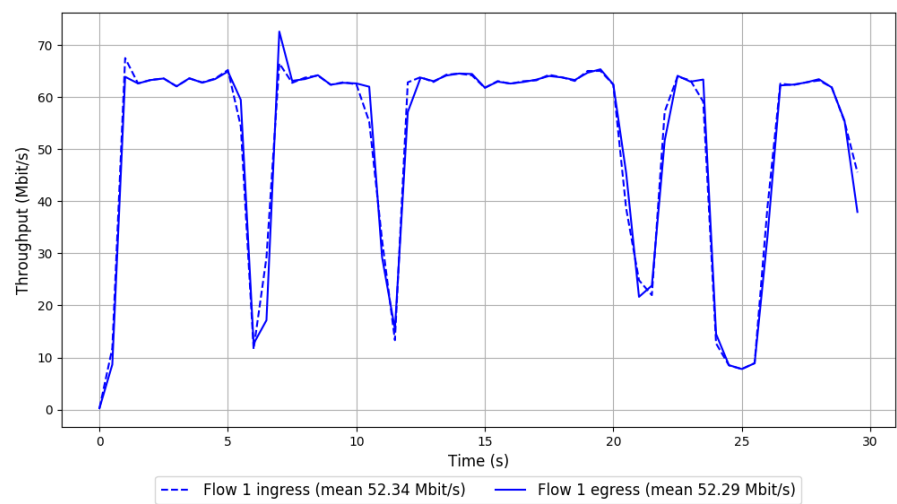


```
Run 1: Statistics of QUIC Cubic

Start at: 2017-08-16 23:36:34
End at: 2017-08-16 23:37:04

# Below is generated by plot.py at 2017-08-17 03:47:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 52.29 Mbit/s
95th percentile per-packet one-way delay: 53.819 ms
Loss rate: 0.45%
-- Flow 1:
Average throughput: 52.29 Mbit/s
95th percentile per-packet one-way delay: 53.819 ms
Loss rate: 0.45%
```

Run 1: Report of QUIC Cubic — Data Link

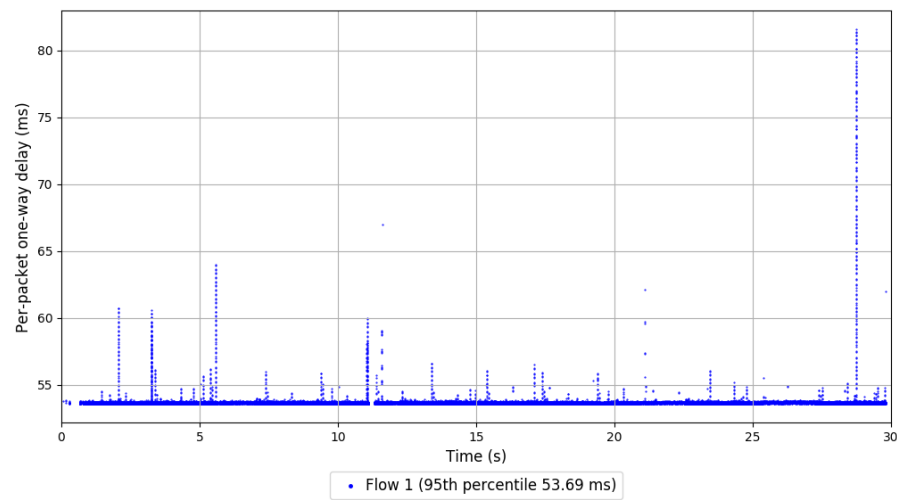
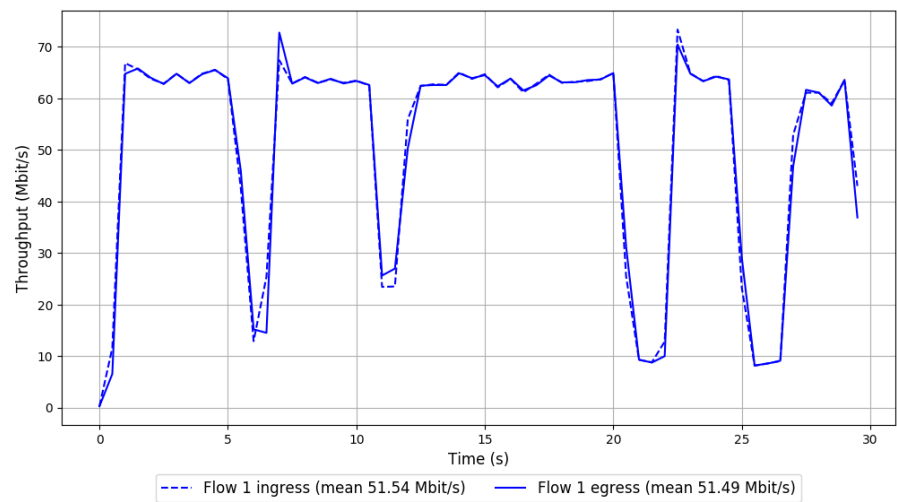


```
Run 2: Statistics of QUIC Cubic

Start at: 2017-08-16 23:46:52
End at: 2017-08-16 23:47:22

# Below is generated by plot.py at 2017-08-17 03:47:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 51.49 Mbit/s
95th percentile per-packet one-way delay: 53.688 ms
Loss rate: 0.42%
-- Flow 1:
Average throughput: 51.49 Mbit/s
95th percentile per-packet one-way delay: 53.688 ms
Loss rate: 0.42%
```

Run 2: Report of QUIC Cubic — Data Link

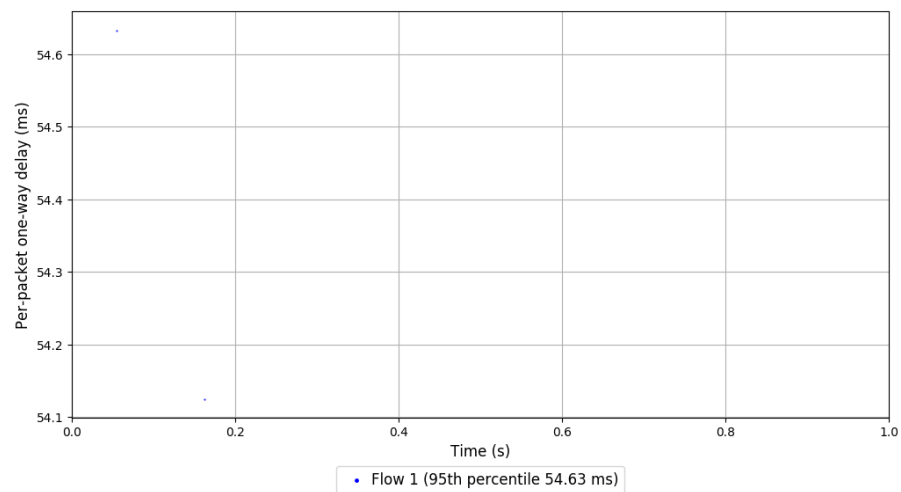
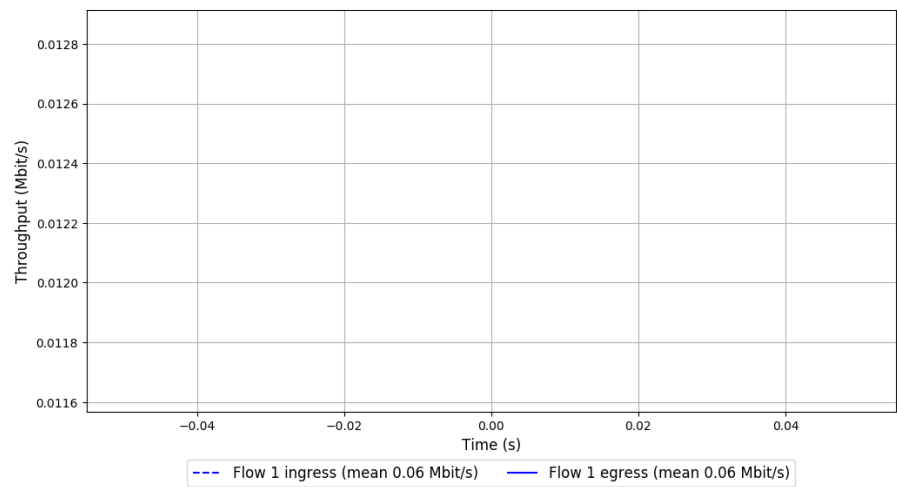


Run 3: Statistics of QUIC Cubic

Start at: 2017-08-16 23:57:36

End at: 2017-08-16 23:58:06

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2017-08-17 00:07:49

End at: 2017-08-17 00:08:19

Below is generated by plot.py at 2017-08-17 03:47:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 53.65 Mbit/s

95th percentile per-packet one-way delay: 50.411 ms

Loss rate: 0.42%

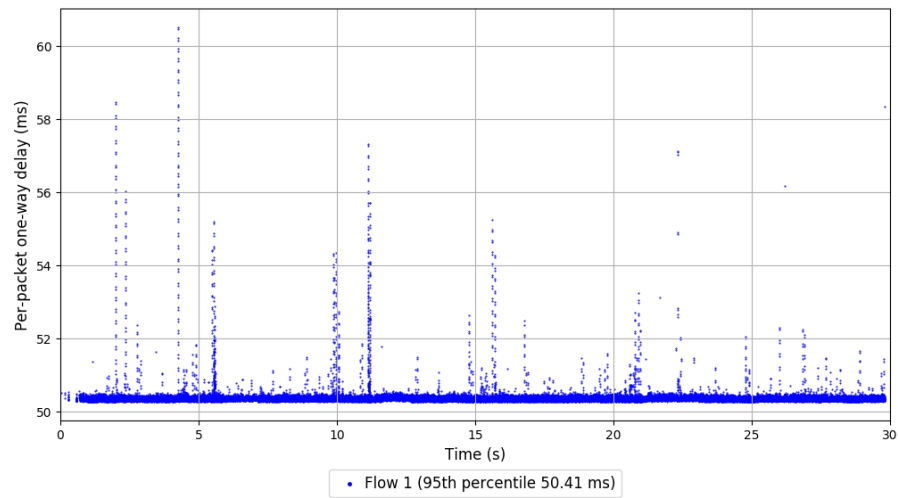
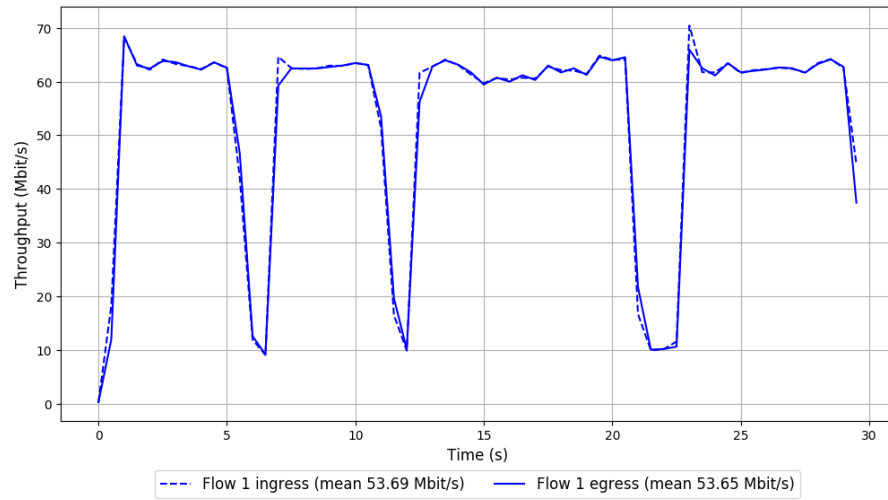
-- Flow 1:

Average throughput: 53.65 Mbit/s

95th percentile per-packet one-way delay: 50.411 ms

Loss rate: 0.42%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2017-08-17 00:17:55

End at: 2017-08-17 00:18:25

Below is generated by plot.py at 2017-08-17 03:47:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 54.31 Mbit/s

95th percentile per-packet one-way delay: 50.261 ms

Loss rate: 0.39%

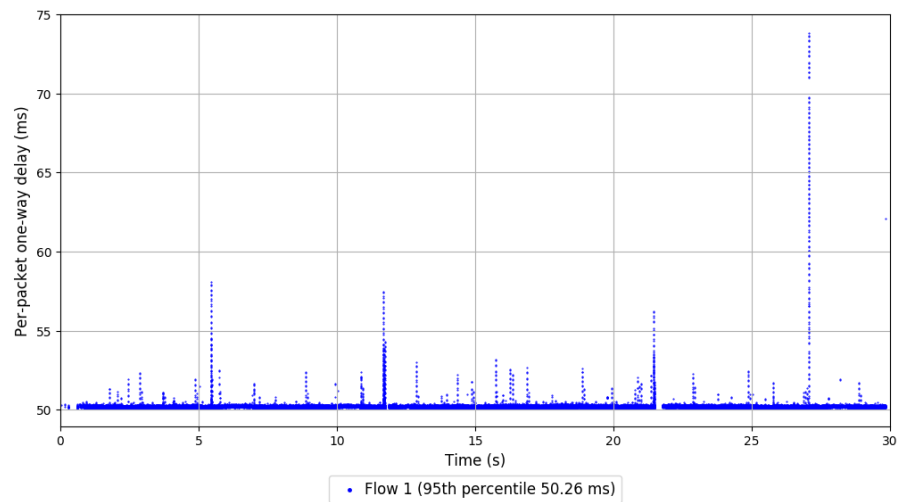
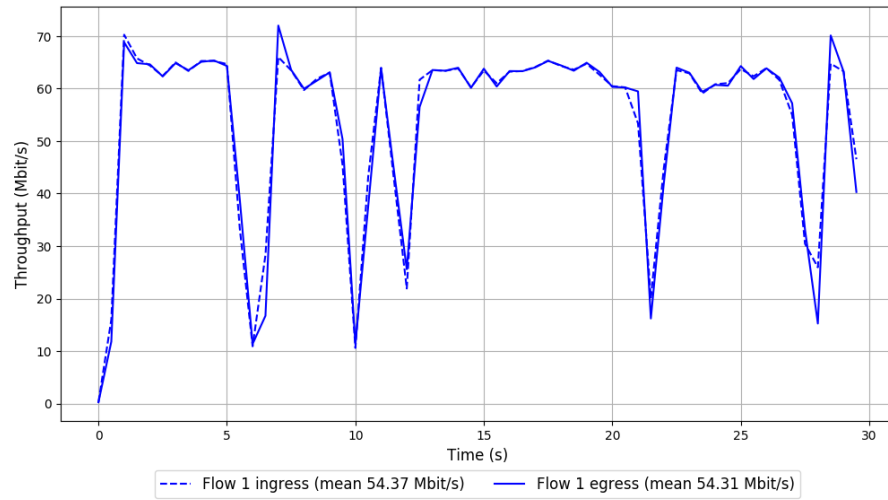
-- Flow 1:

Average throughput: 54.31 Mbit/s

95th percentile per-packet one-way delay: 50.261 ms

Loss rate: 0.39%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2017-08-17 00:28:34

End at: 2017-08-17 00:29:04

Below is generated by plot.py at 2017-08-17 03:47:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 24.24 Mbit/s

95th percentile per-packet one-way delay: 54.098 ms

Loss rate: 0.96%

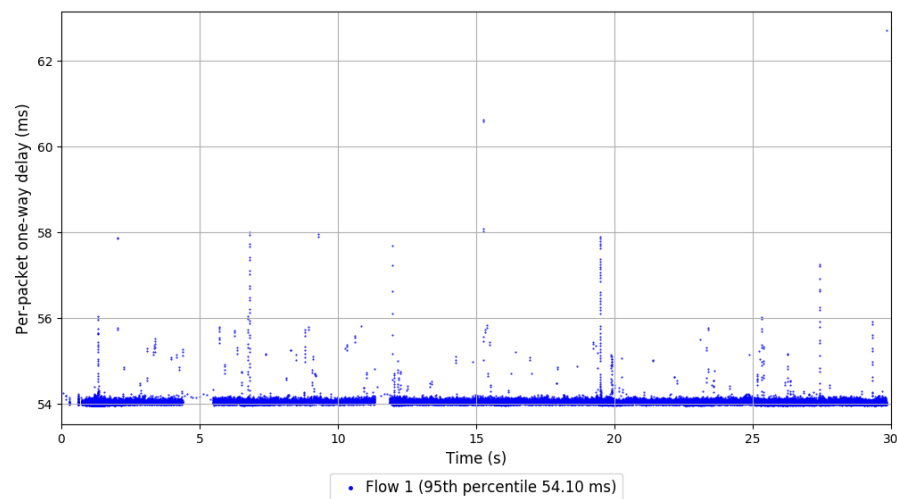
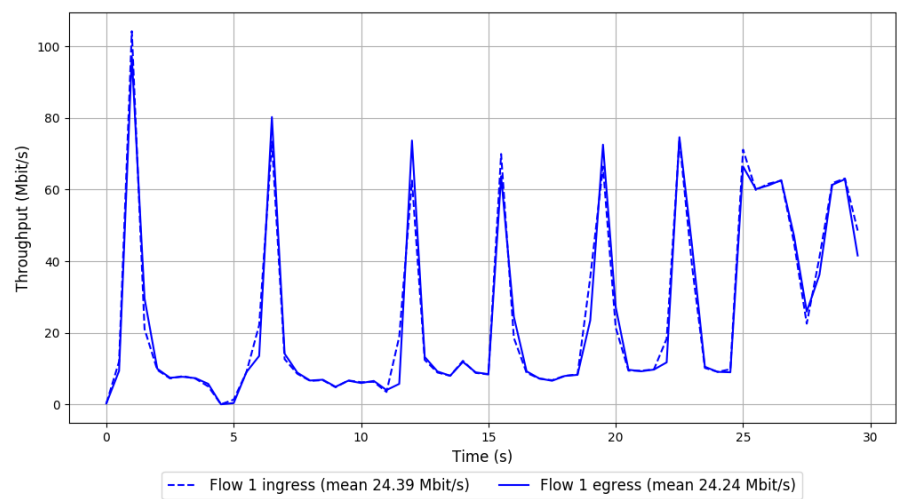
-- Flow 1:

Average throughput: 24.24 Mbit/s

95th percentile per-packet one-way delay: 54.098 ms

Loss rate: 0.96%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2017-08-17 00:38:09

End at: 2017-08-17 00:38:39

Below is generated by plot.py at 2017-08-17 03:47:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 35.01 Mbit/s

95th percentile per-packet one-way delay: 49.946 ms

Loss rate: 0.66%

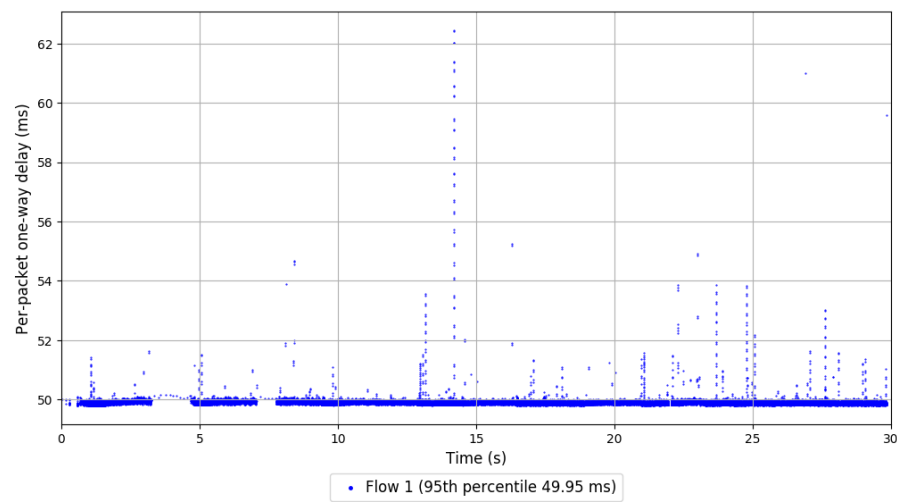
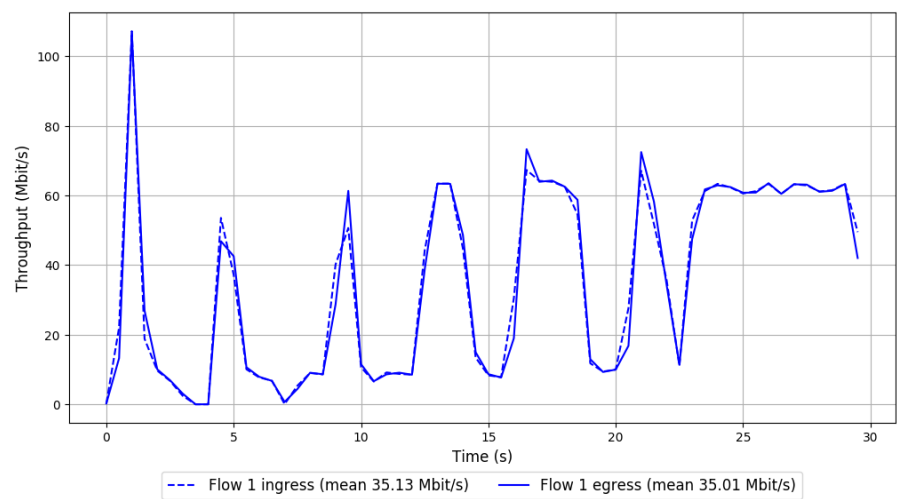
-- Flow 1:

Average throughput: 35.01 Mbit/s

95th percentile per-packet one-way delay: 49.946 ms

Loss rate: 0.66%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2017-08-17 00:48:10

End at: 2017-08-17 00:48:40

Below is generated by plot.py at 2017-08-17 03:47:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 55.10 Mbit/s

95th percentile per-packet one-way delay: 53.770 ms

Loss rate: 0.40%

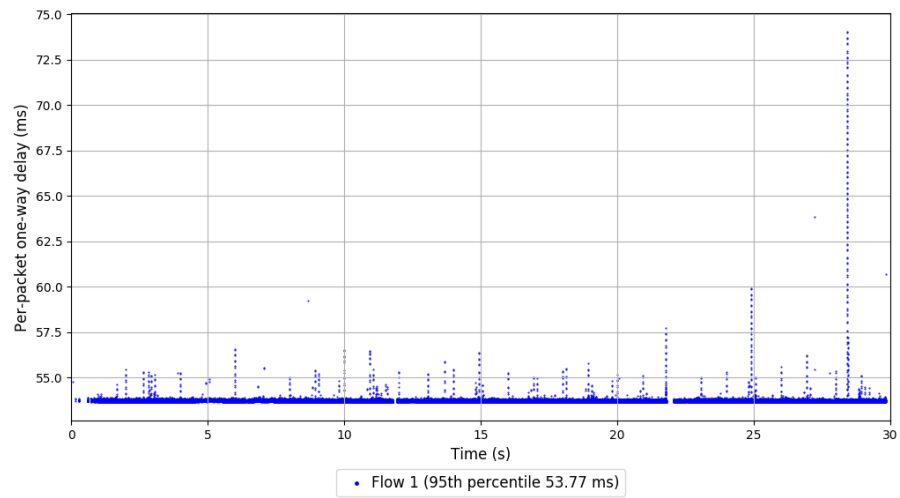
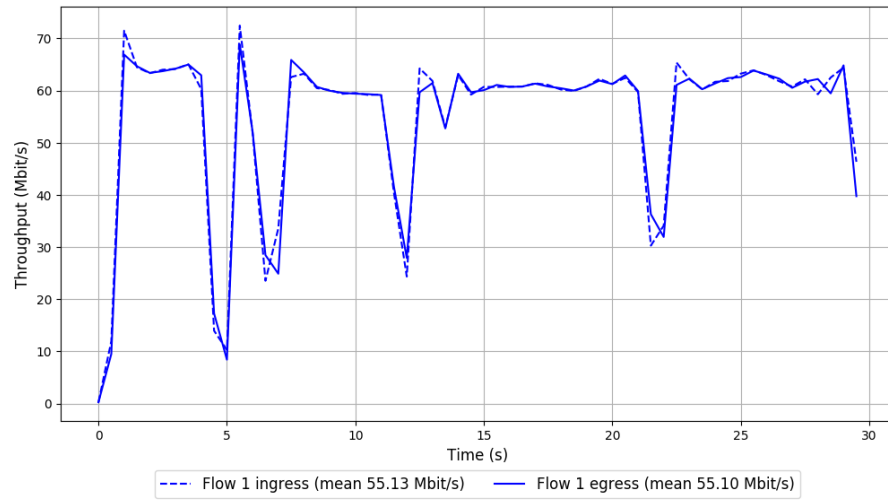
-- Flow 1:

Average throughput: 55.10 Mbit/s

95th percentile per-packet one-way delay: 53.770 ms

Loss rate: 0.40%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2017-08-17 00:58:32

End at: 2017-08-17 00:59:02

Below is generated by plot.py at 2017-08-17 03:47:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 55.15 Mbit/s

95th percentile per-packet one-way delay: 53.443 ms

Loss rate: 0.38%

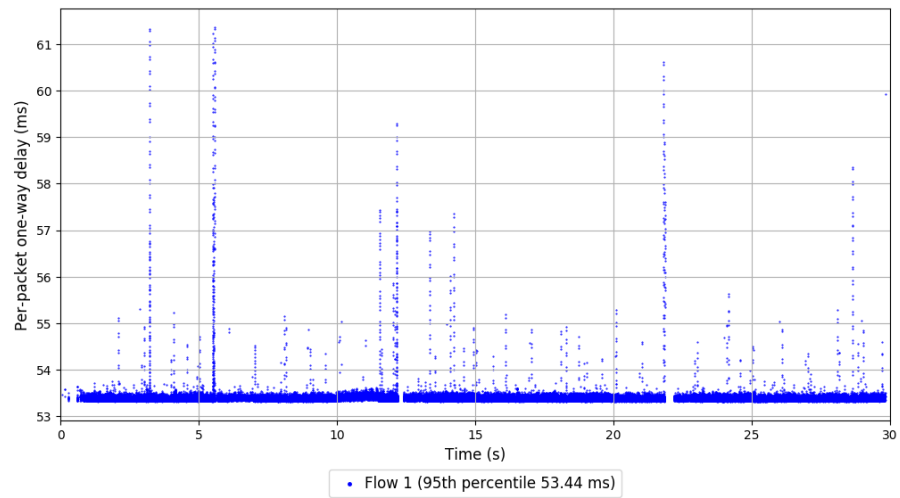
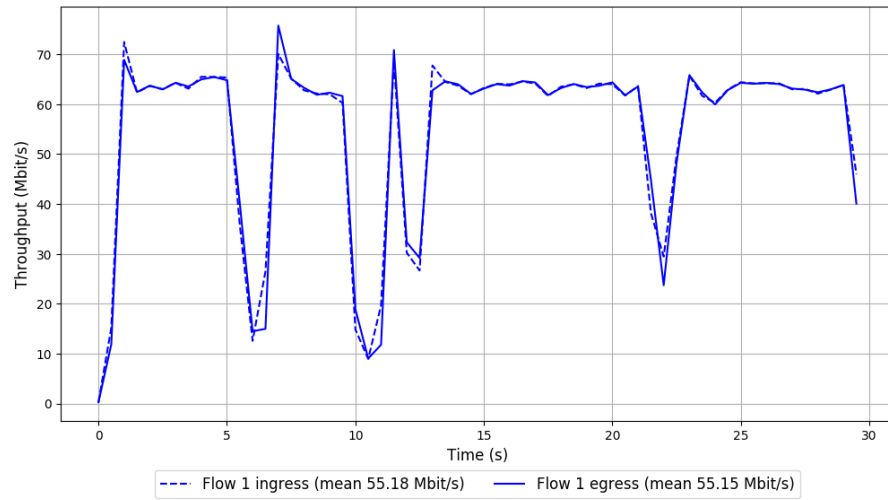
-- Flow 1:

Average throughput: 55.15 Mbit/s

95th percentile per-packet one-way delay: 53.443 ms

Loss rate: 0.38%

Run 9: Report of QUIC Cubic — Data Link

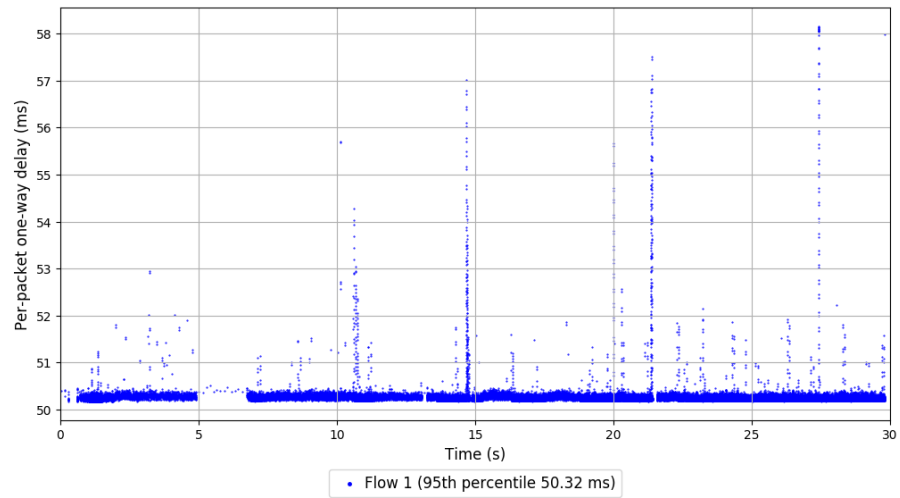
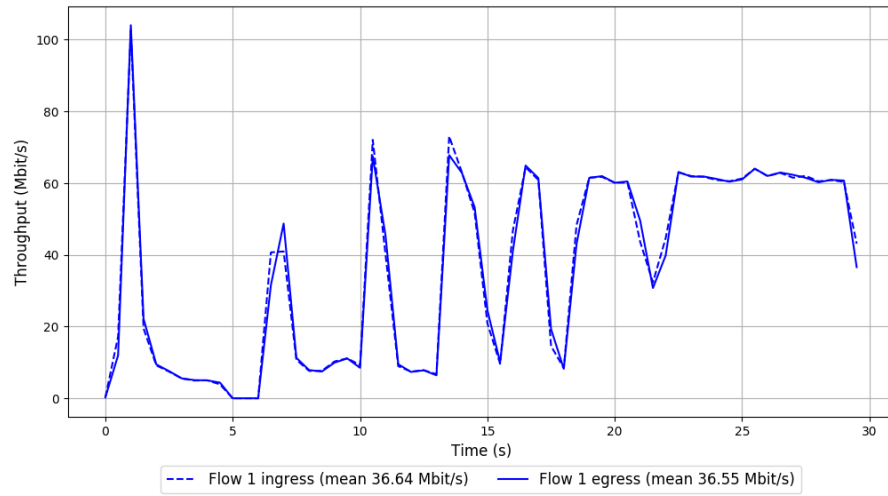


```
Run 10: Statistics of QUIC Cubic

Start at: 2017-08-17 01:08:25
End at: 2017-08-17 01:08:55

# Below is generated by plot.py at 2017-08-17 03:48:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 36.55 Mbit/s
95th percentile per-packet one-way delay: 50.320 ms
Loss rate: 0.57%
-- Flow 1:
Average throughput: 36.55 Mbit/s
95th percentile per-packet one-way delay: 50.320 ms
Loss rate: 0.57%
```

Run 10: Report of QUIC Cubic — Data Link



Run 1: Statistics of Saturator

Start at: 2017-08-16 23:38:49

End at: 2017-08-16 23:39:19

Below is generated by plot.py at 2017-08-17 03:48:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 23.54 Mbit/s

95th percentile per-packet one-way delay: 51.161 ms

Loss rate: 0.41%

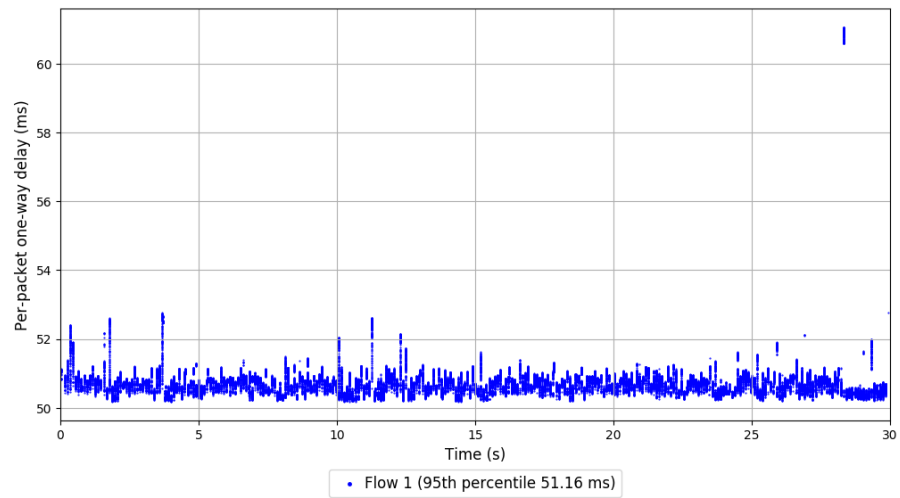
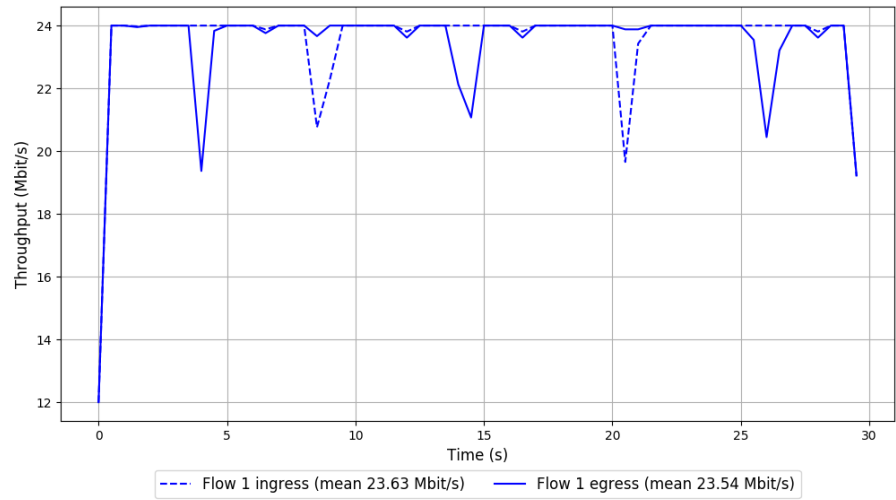
-- Flow 1:

Average throughput: 23.54 Mbit/s

95th percentile per-packet one-way delay: 51.161 ms

Loss rate: 0.41%

Run 1: Report of Saturator — Data Link



Run 2: Statistics of Saturator

Start at: 2017-08-16 23:48:51

End at: 2017-08-16 23:49:21

Below is generated by plot.py at 2017-08-17 03:48:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 23.54 Mbit/s

95th percentile per-packet one-way delay: 51.160 ms

Loss rate: 0.49%

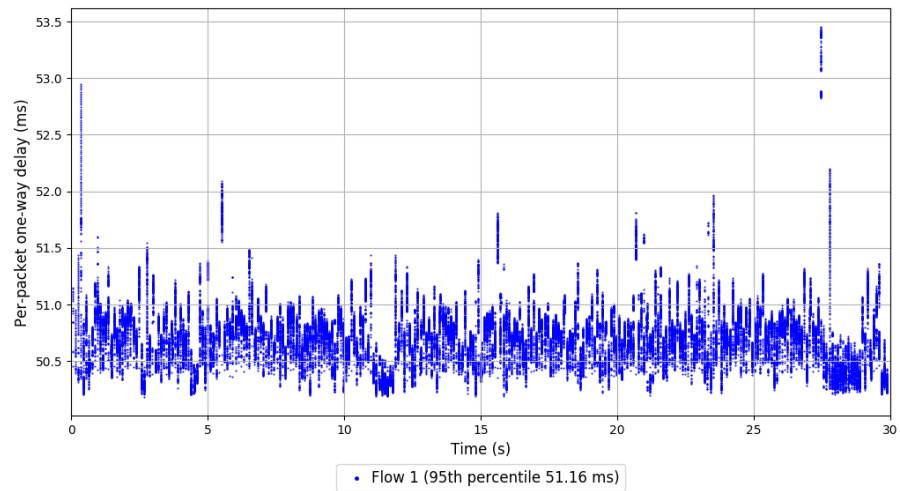
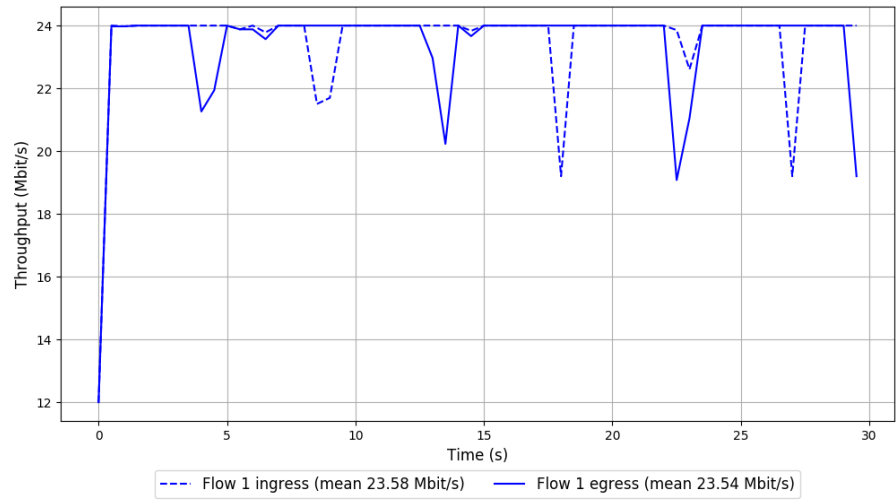
-- Flow 1:

Average throughput: 23.54 Mbit/s

95th percentile per-packet one-way delay: 51.160 ms

Loss rate: 0.49%

Run 2: Report of Saturator — Data Link



Run 3: Statistics of Saturator

Start at: 2017-08-16 23:59:41

End at: 2017-08-17 00:00:11

Below is generated by plot.py at 2017-08-17 03:48:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 23.60 Mbit/s

95th percentile per-packet one-way delay: 51.236 ms

Loss rate: 0.34%

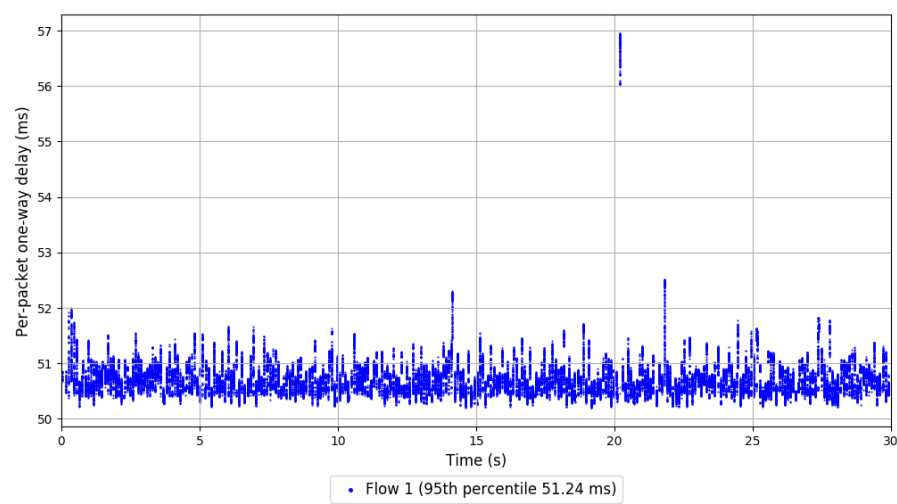
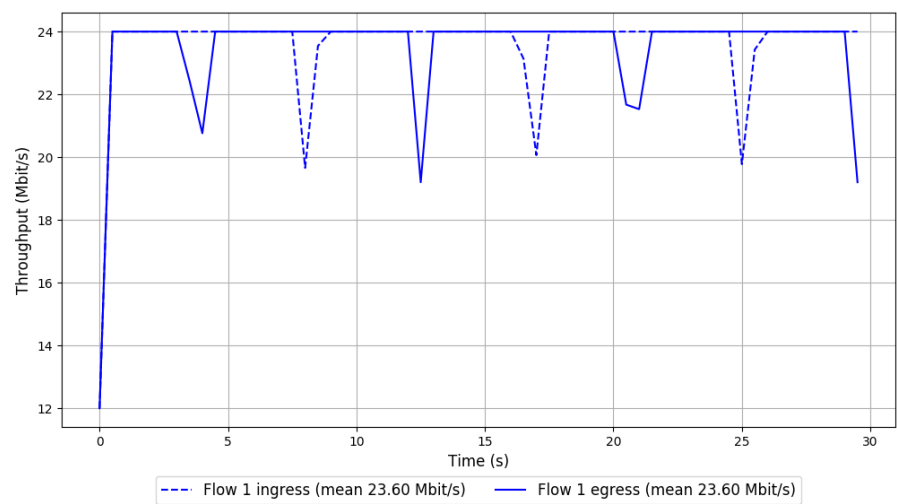
-- Flow 1:

Average throughput: 23.60 Mbit/s

95th percentile per-packet one-way delay: 51.236 ms

Loss rate: 0.34%

Run 3: Report of Saturator — Data Link



Run 4: Statistics of Saturator

Start at: 2017-08-17 00:10:03

End at: 2017-08-17 00:10:33

Below is generated by plot.py at 2017-08-17 03:48:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 23.42 Mbit/s

95th percentile per-packet one-way delay: 51.081 ms

Loss rate: 0.66%

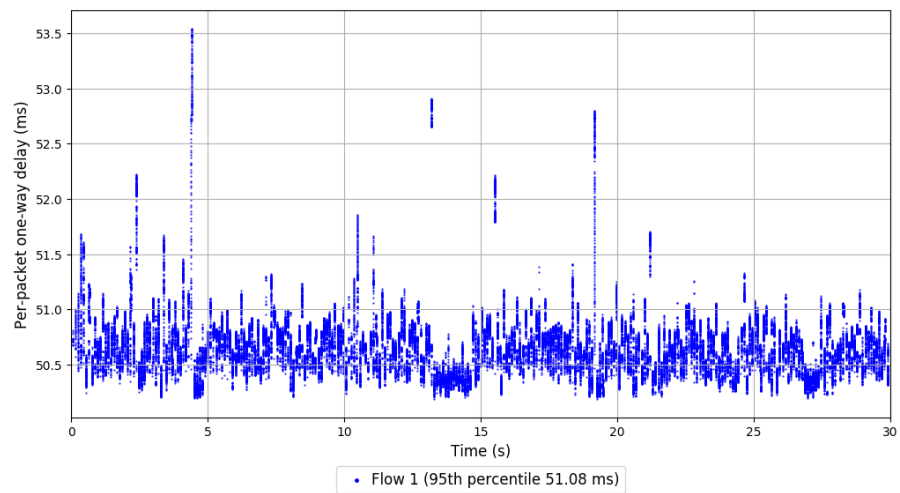
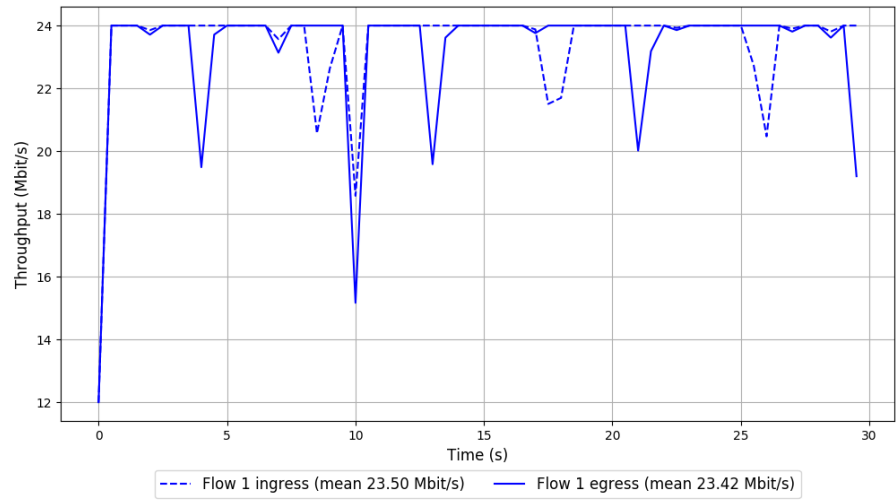
-- Flow 1:

Average throughput: 23.42 Mbit/s

95th percentile per-packet one-way delay: 51.081 ms

Loss rate: 0.66%

Run 4: Report of Saturator — Data Link



Run 5: Statistics of Saturator

Start at: 2017-08-17 00:20:13

End at: 2017-08-17 00:20:43

Below is generated by plot.py at 2017-08-17 03:48:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 23.60 Mbit/s

95th percentile per-packet one-way delay: 51.242 ms

Loss rate: 0.34%

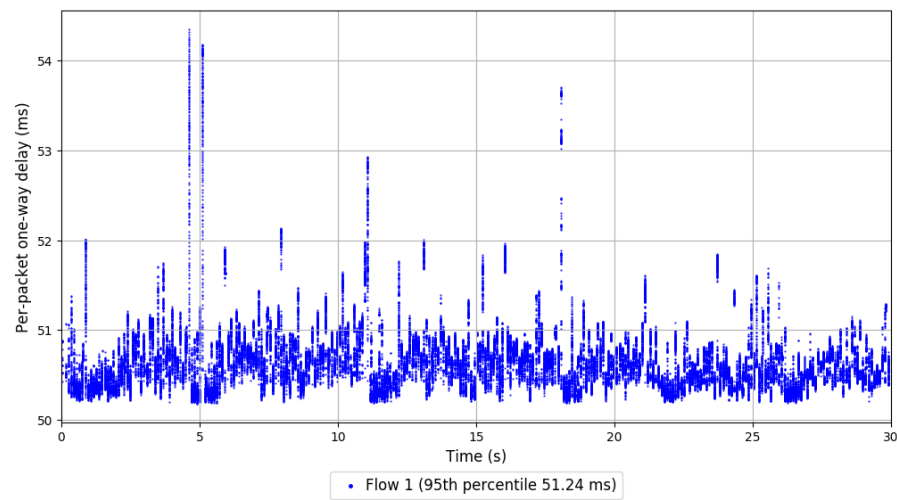
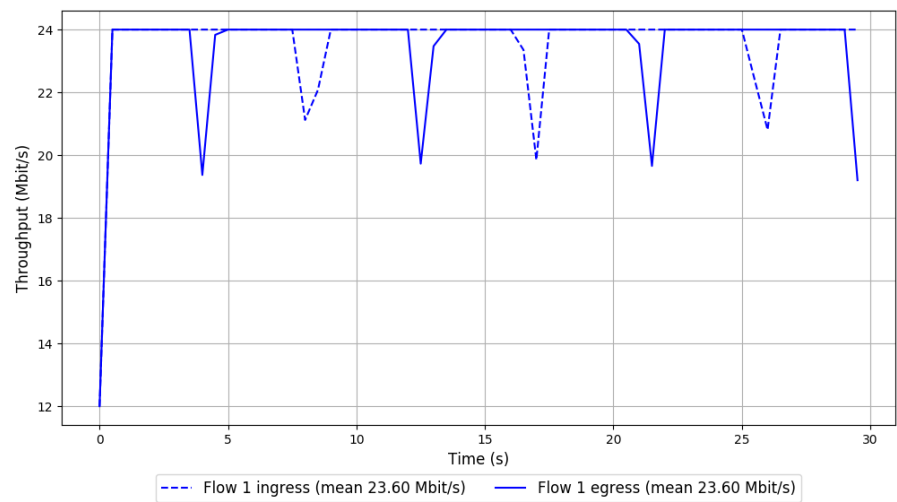
-- Flow 1:

Average throughput: 23.60 Mbit/s

95th percentile per-packet one-way delay: 51.242 ms

Loss rate: 0.34%

Run 5: Report of Saturator — Data Link

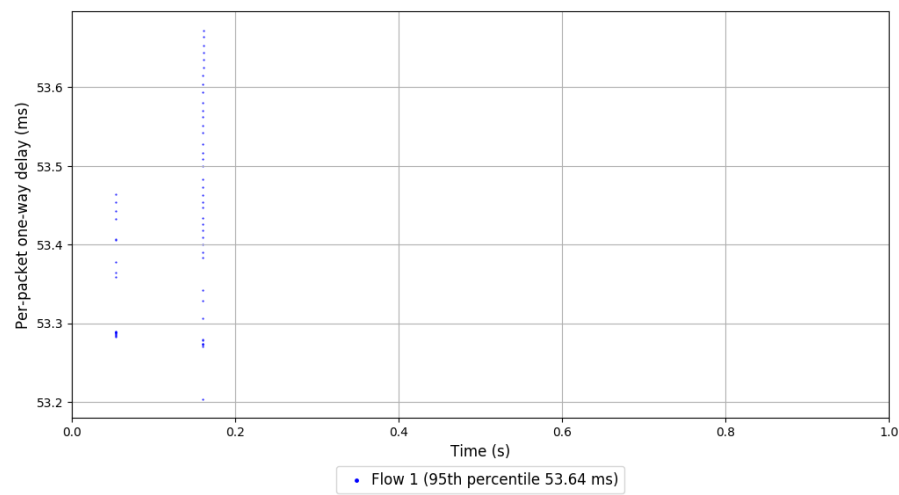
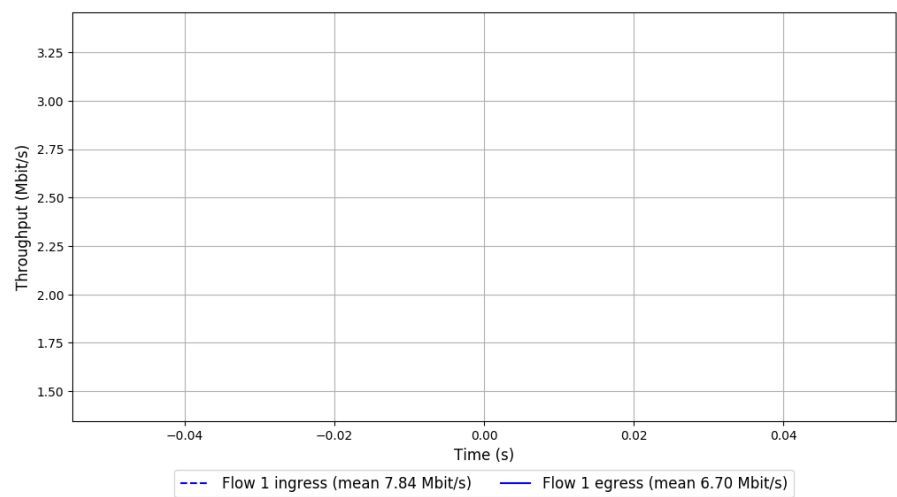


Run 6: Statistics of Saturator

Start at: 2017-08-17 00:30:32

End at: 2017-08-17 00:31:03

Run 6: Report of Saturator — Data Link



Run 7: Statistics of Saturator

Start at: 2017-08-17 00:40:07

End at: 2017-08-17 00:40:37

Below is generated by plot.py at 2017-08-17 03:48:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 22.79 Mbit/s

95th percentile per-packet one-way delay: 51.001 ms

Loss rate: 0.45%

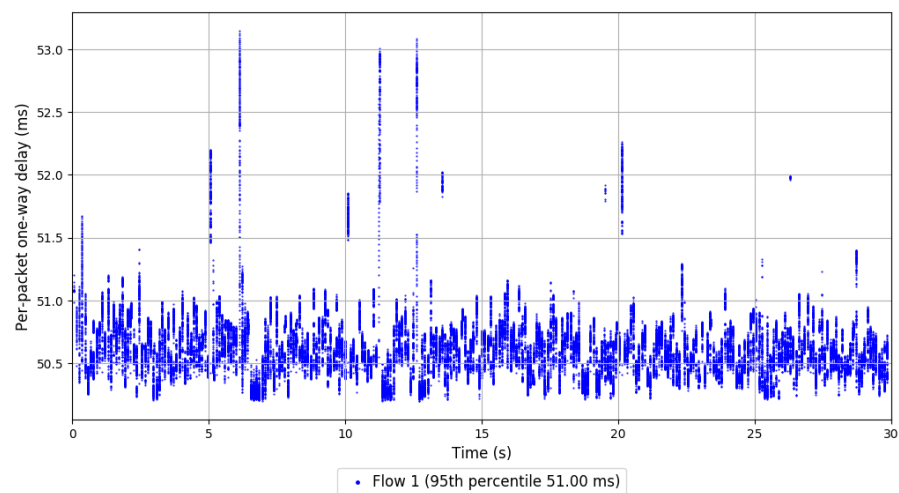
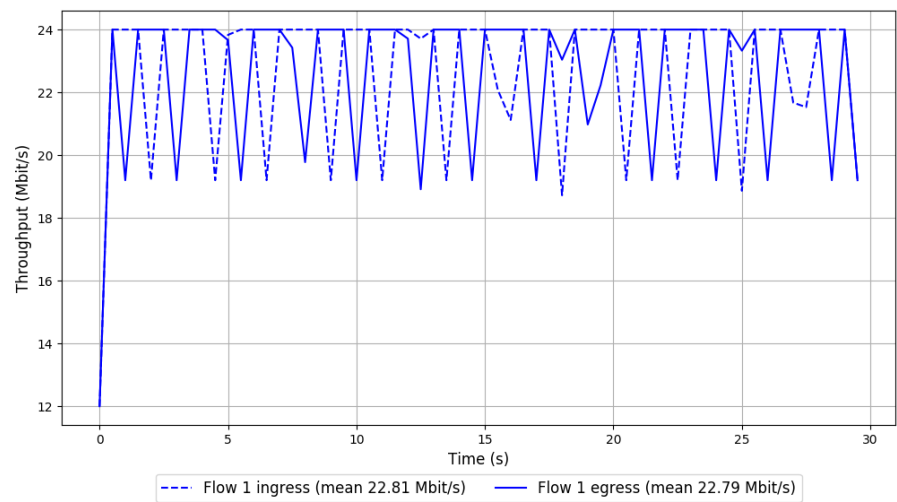
-- Flow 1:

Average throughput: 22.79 Mbit/s

95th percentile per-packet one-way delay: 51.001 ms

Loss rate: 0.45%

Run 7: Report of Saturator — Data Link



Run 8: Statistics of Saturator

Start at: 2017-08-17 00:50:11

End at: 2017-08-17 00:50:41

Below is generated by plot.py at 2017-08-17 03:48:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 22.81 Mbit/s

95th percentile per-packet one-way delay: 51.363 ms

Loss rate: 0.36%

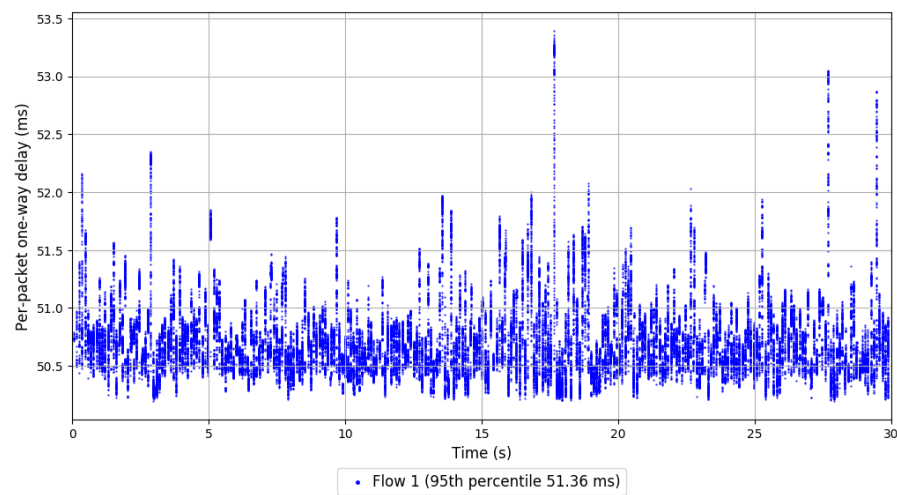
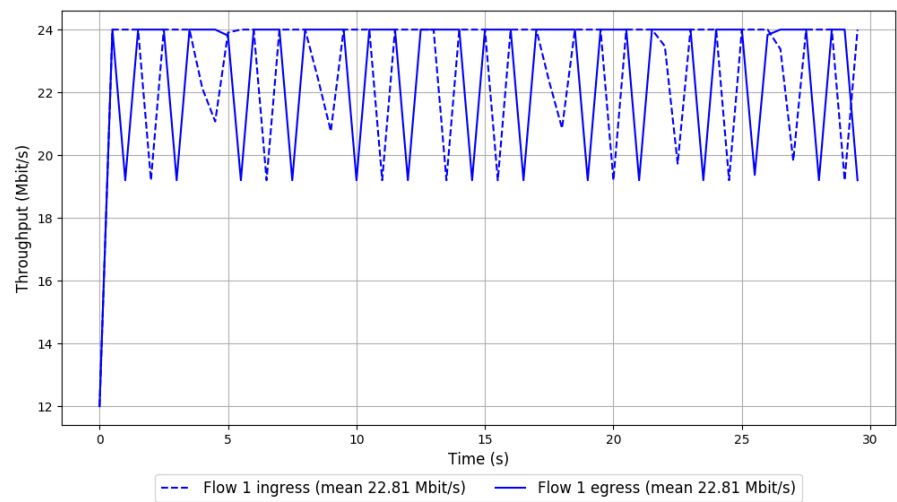
-- Flow 1:

Average throughput: 22.81 Mbit/s

95th percentile per-packet one-way delay: 51.363 ms

Loss rate: 0.36%

Run 8: Report of Saturator — Data Link



Run 9: Statistics of Saturator

Start at: 2017-08-17 01:00:32

End at: 2017-08-17 01:01:02

Below is generated by plot.py at 2017-08-17 03:48:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 22.79 Mbit/s

95th percentile per-packet one-way delay: 51.010 ms

Loss rate: 0.66%

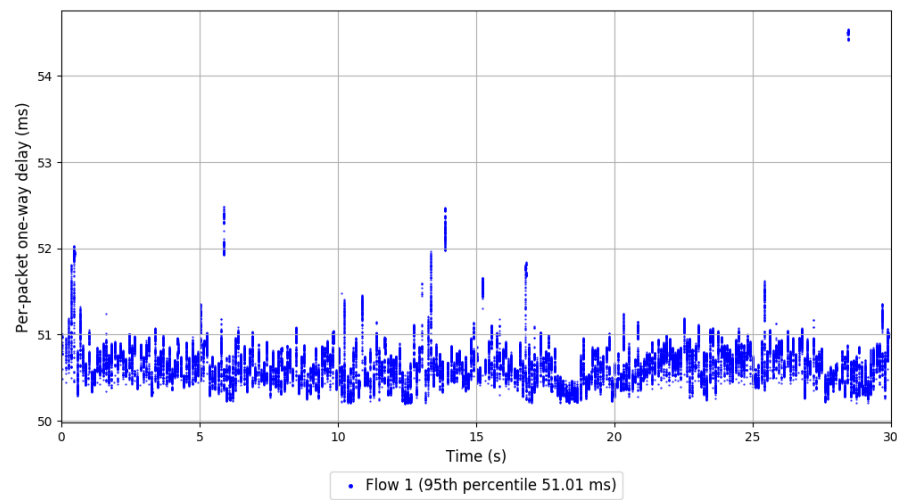
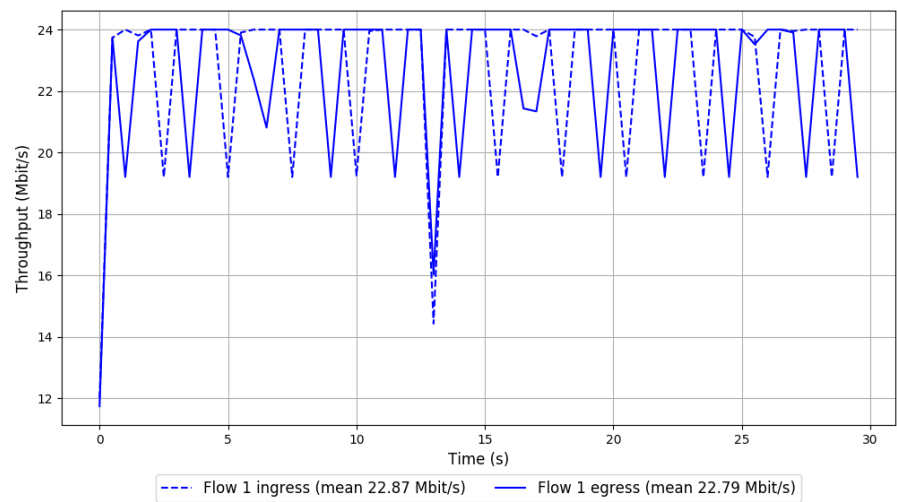
-- Flow 1:

Average throughput: 22.79 Mbit/s

95th percentile per-packet one-way delay: 51.010 ms

Loss rate: 0.66%

Run 9: Report of Saturator — Data Link



Run 10: Statistics of Saturator

Start at: 2017-08-17 01:10:41

End at: 2017-08-17 01:11:11

Below is generated by plot.py at 2017-08-17 03:48:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 22.87 Mbit/s

95th percentile per-packet one-way delay: 51.257 ms

Loss rate: 0.39%

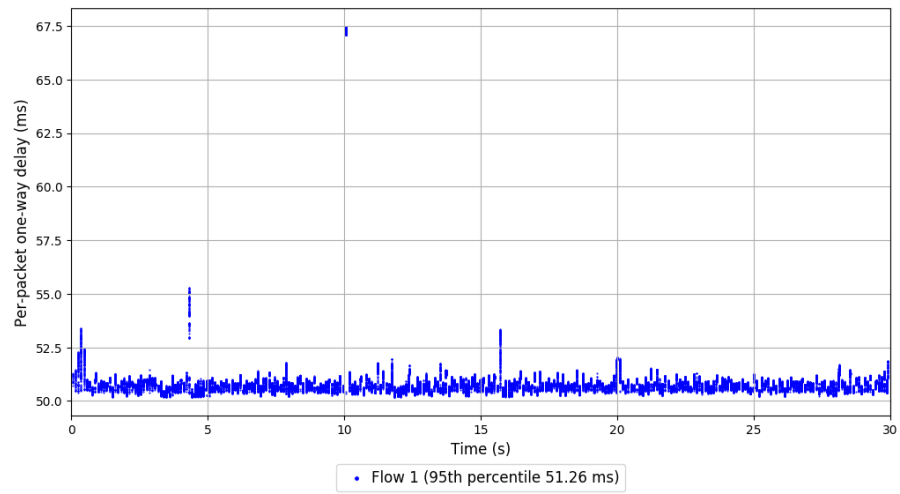
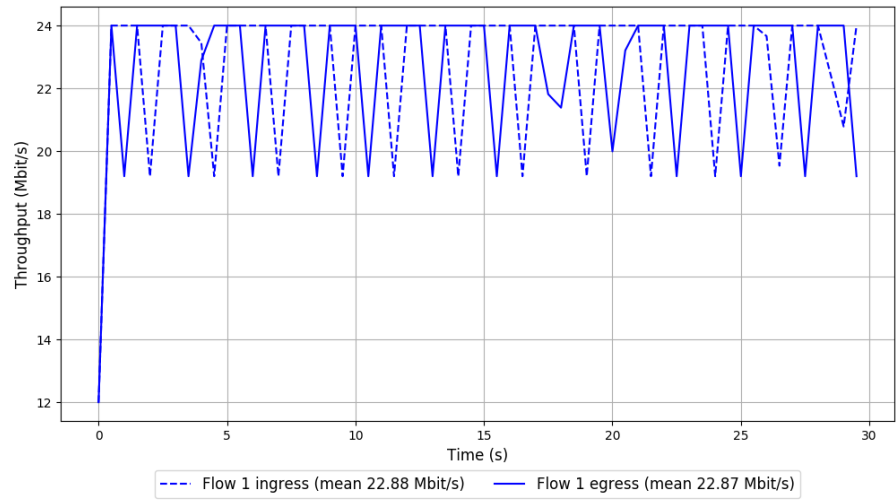
-- Flow 1:

Average throughput: 22.87 Mbit/s

95th percentile per-packet one-way delay: 51.257 ms

Loss rate: 0.39%

Run 10: Report of Saturator — Data Link

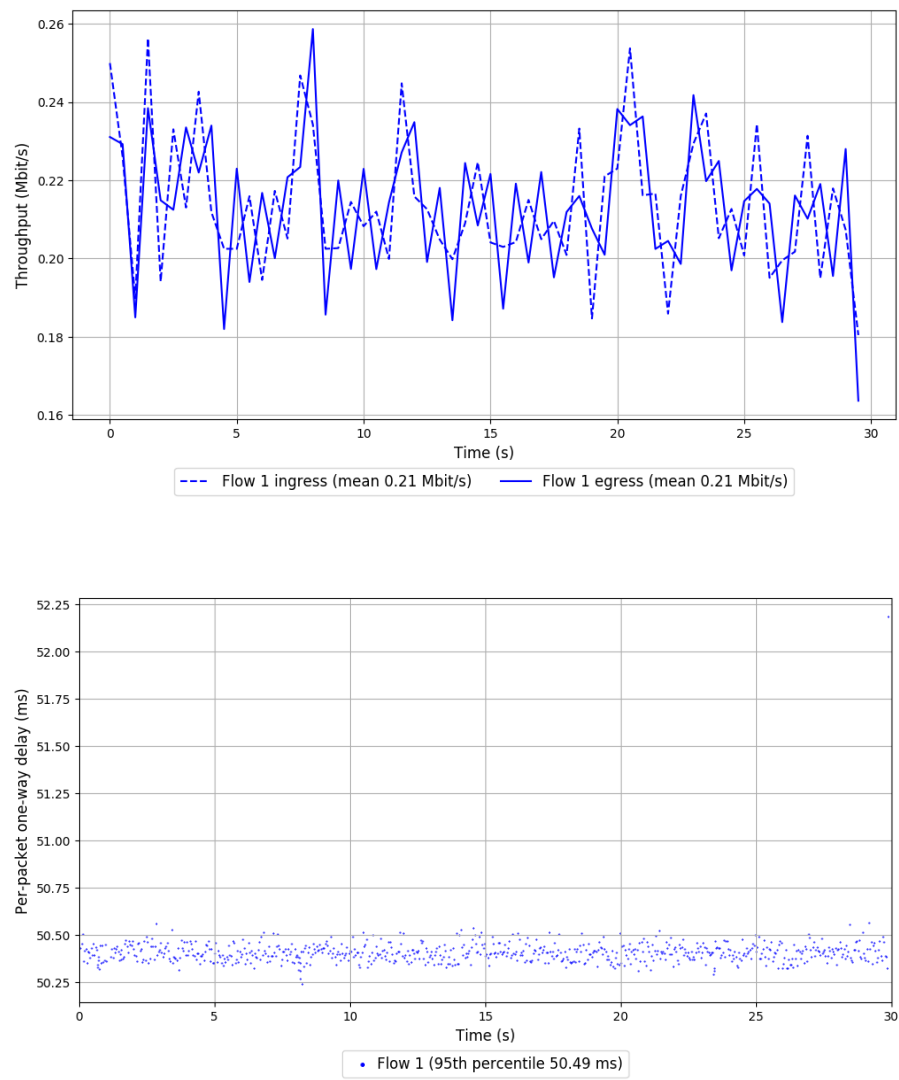


```
Run 1: Statistics of SCReAM

Start at: 2017-08-16 23:41:32
End at: 2017-08-16 23:42:02

# Below is generated by plot.py at 2017-08-17 03:48:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 50.489 ms
Loss rate: 0.26%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 50.489 ms
Loss rate: 0.26%
```

Run 1: Report of SReAM — Data Link

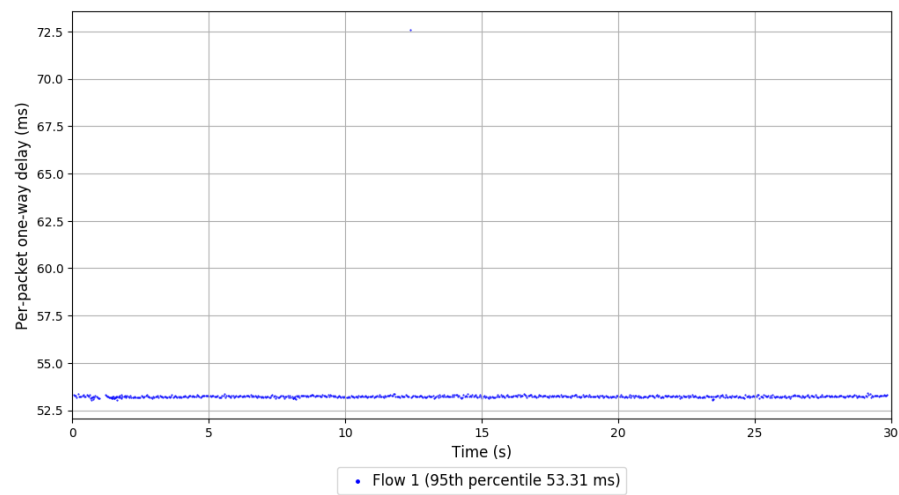
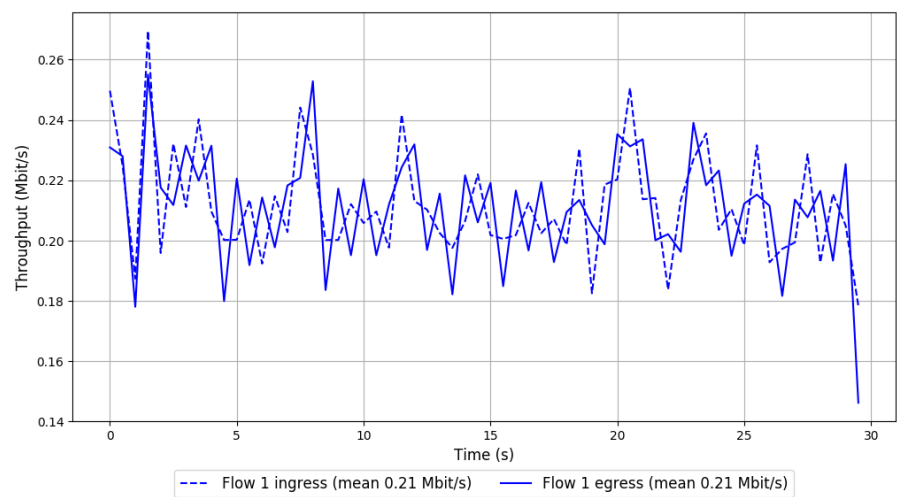


```
Run 2: Statistics of SCReAM

Start at: 2017-08-16 23:51:35
End at: 2017-08-16 23:52:05

# Below is generated by plot.py at 2017-08-17 03:48:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.310 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.310 ms
Loss rate: 0.38%
```

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2017-08-17 00:02:15

End at: 2017-08-17 00:02:45

Below is generated by plot.py at 2017-08-17 03:48:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 53.937 ms

Loss rate: 0.38%

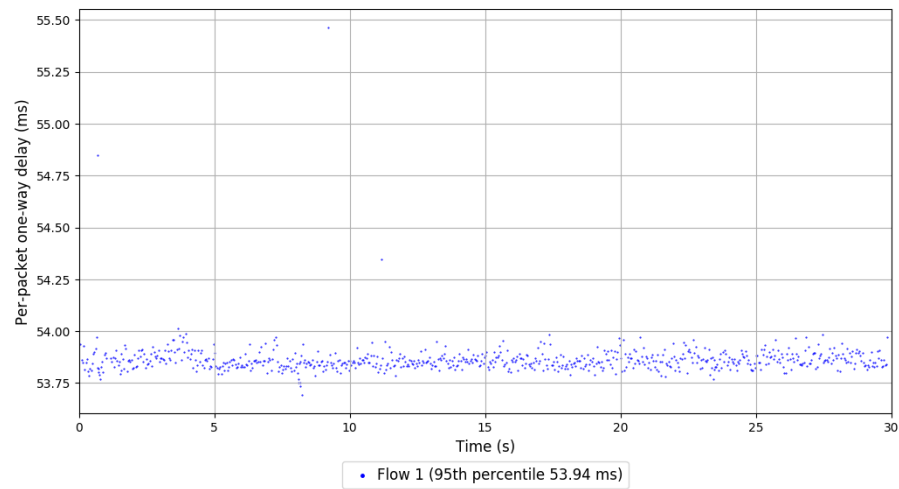
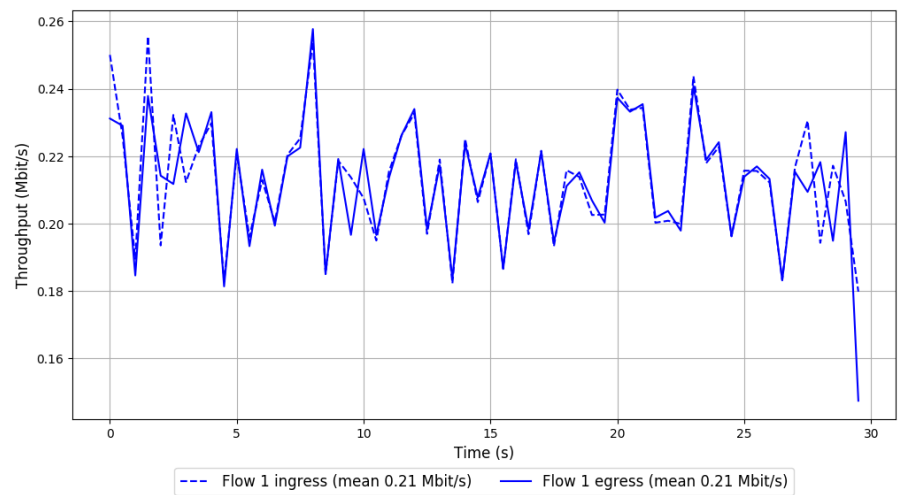
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 53.937 ms

Loss rate: 0.38%

Run 3: Report of SReAM — Data Link



Run 4: Statistics of SCReAM

Start at: 2017-08-17 00:12:41

End at: 2017-08-17 00:13:11

Below is generated by plot.py at 2017-08-17 03:48:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.835 ms

Loss rate: 0.38%

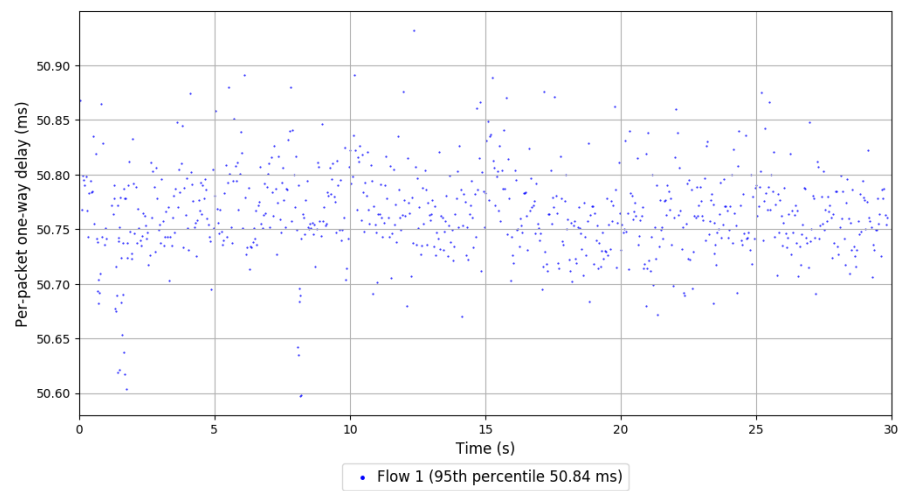
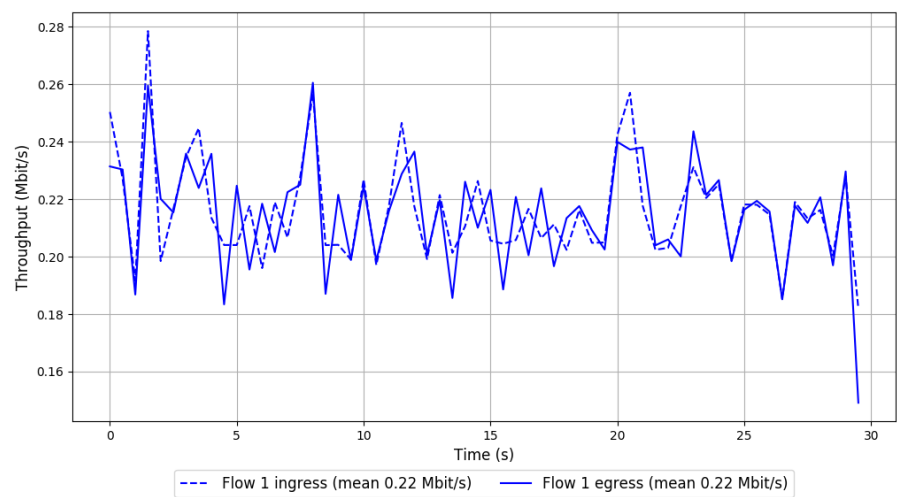
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.835 ms

Loss rate: 0.38%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SCReAM

Start at: 2017-08-17 00:22:48

End at: 2017-08-17 00:23:18

Below is generated by plot.py at 2017-08-17 03:48:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 53.619 ms

Loss rate: 0.38%

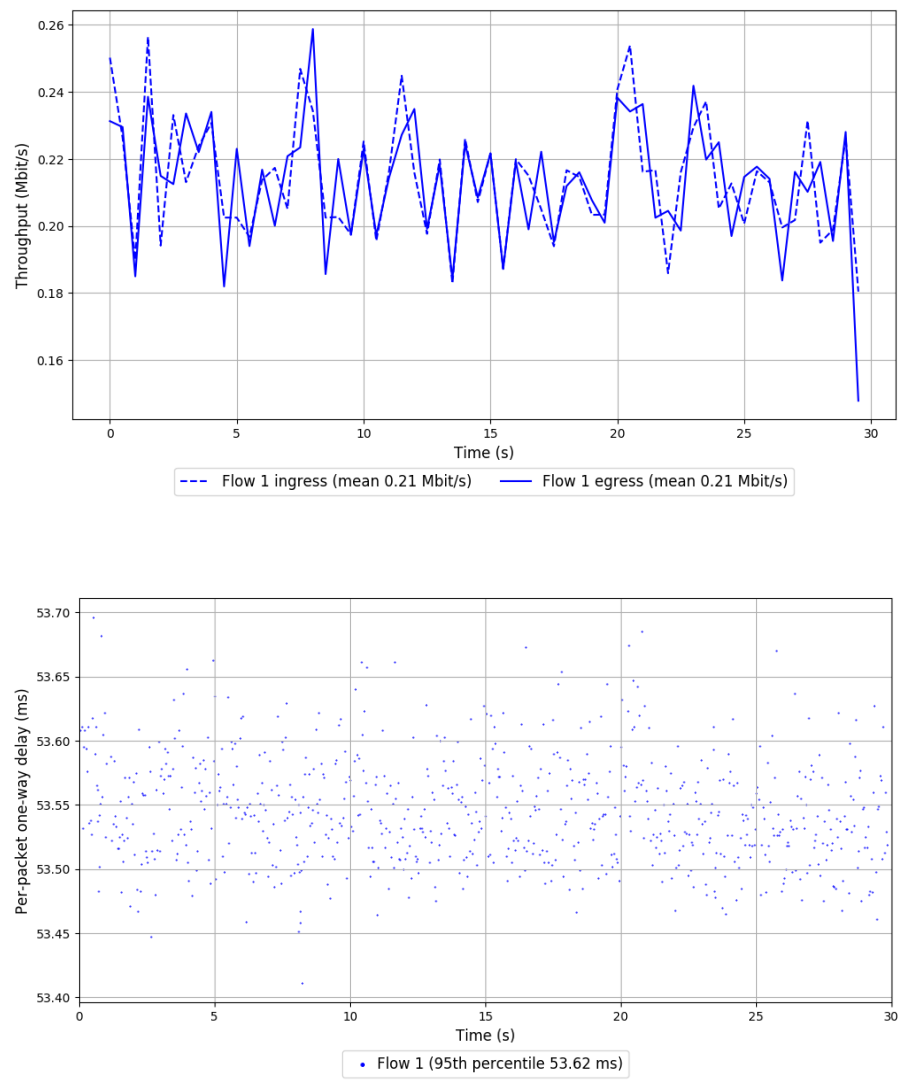
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 53.619 ms

Loss rate: 0.38%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SCReAM

Start at: 2017-08-17 00:33:05

End at: 2017-08-17 00:33:35

Below is generated by plot.py at 2017-08-17 03:48:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 53.310 ms

Loss rate: 0.38%

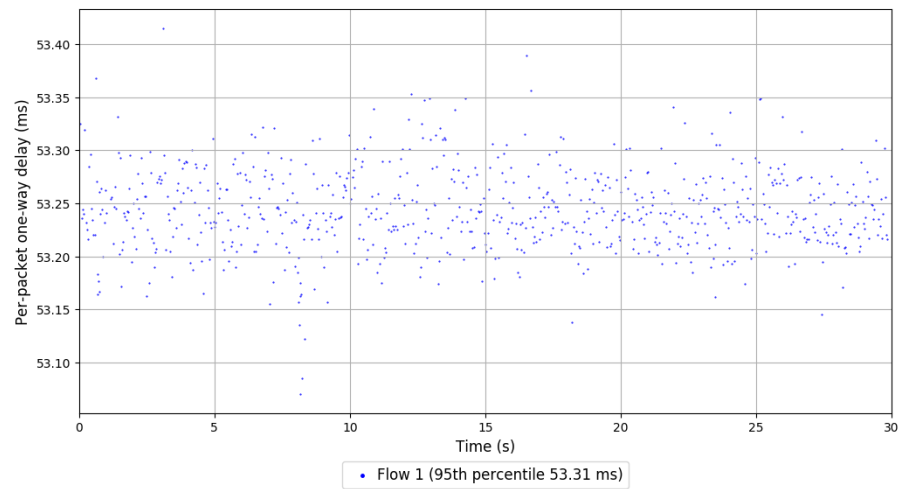
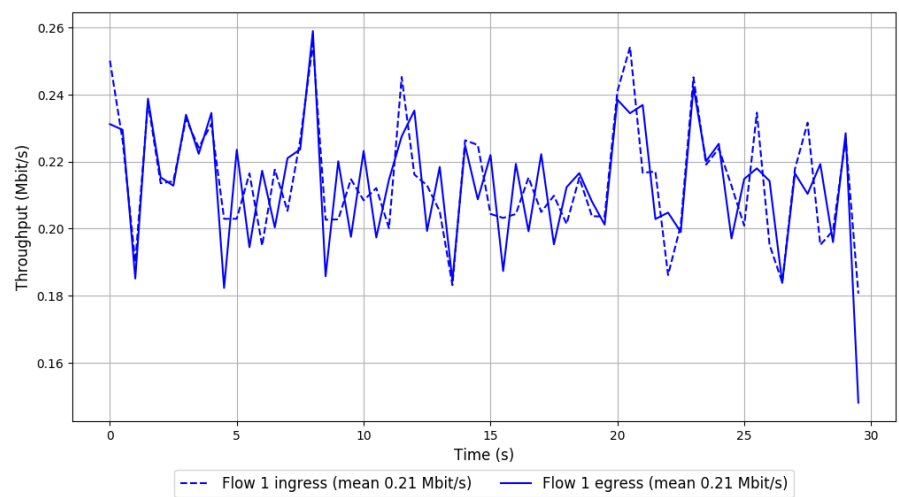
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 53.310 ms

Loss rate: 0.38%

Run 6: Report of SReAM — Data Link



Run 7: Statistics of SCReAM

Start at: 2017-08-17 00:42:50

End at: 2017-08-17 00:43:20

Below is generated by plot.py at 2017-08-17 03:48:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.566 ms

Loss rate: 0.26%

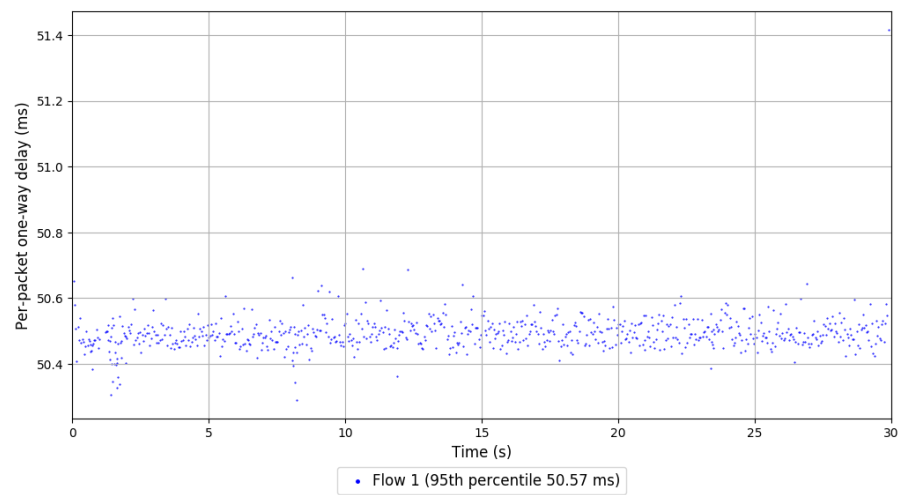
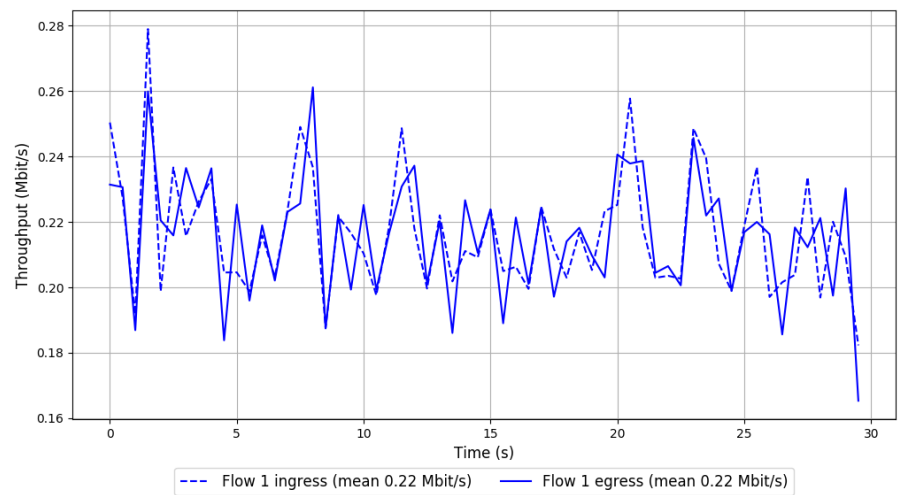
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.566 ms

Loss rate: 0.26%

Run 7: Report of SReAM — Data Link



Run 8: Statistics of SCReAM

Start at: 2017-08-17 00:52:54

End at: 2017-08-17 00:53:24

Below is generated by plot.py at 2017-08-17 03:48:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.485 ms

Loss rate: 0.38%

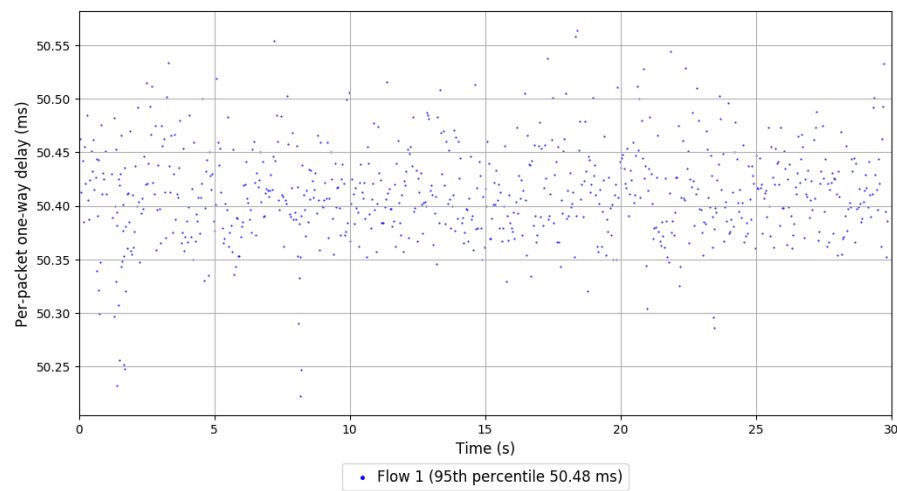
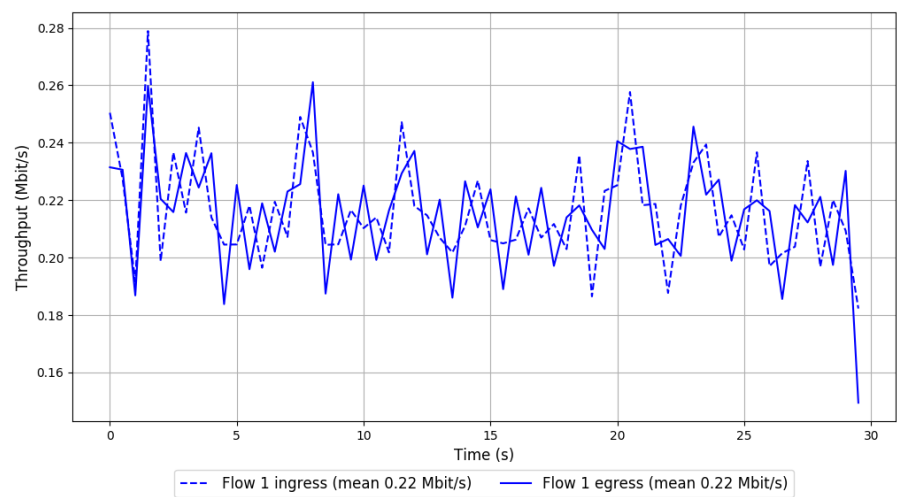
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.485 ms

Loss rate: 0.38%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SCReAM

Start at: 2017-08-17 01:03:13

End at: 2017-08-17 01:03:43

Below is generated by plot.py at 2017-08-17 03:48:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 50.096 ms

Loss rate: 0.26%

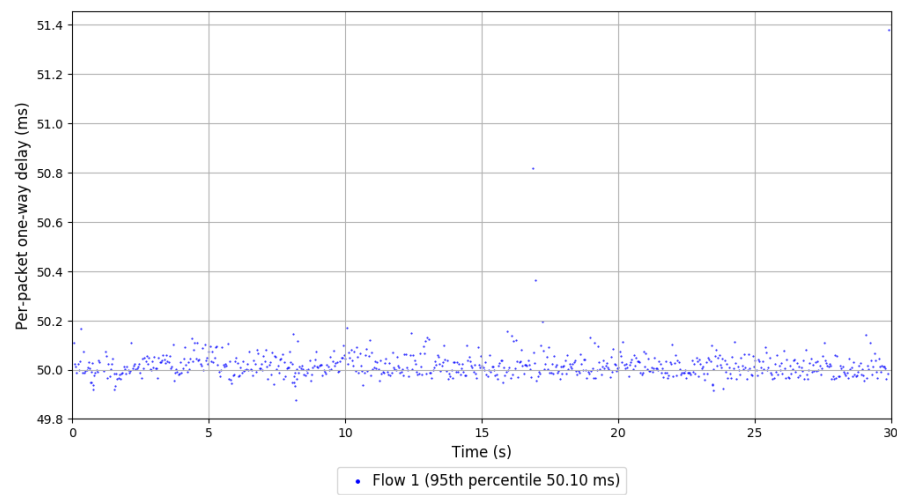
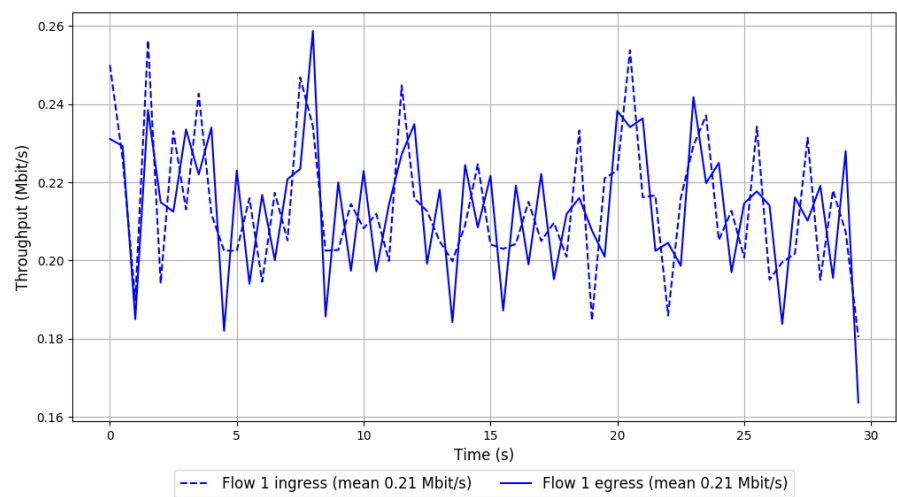
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 50.096 ms

Loss rate: 0.26%

Run 9: Report of SReAM — Data Link

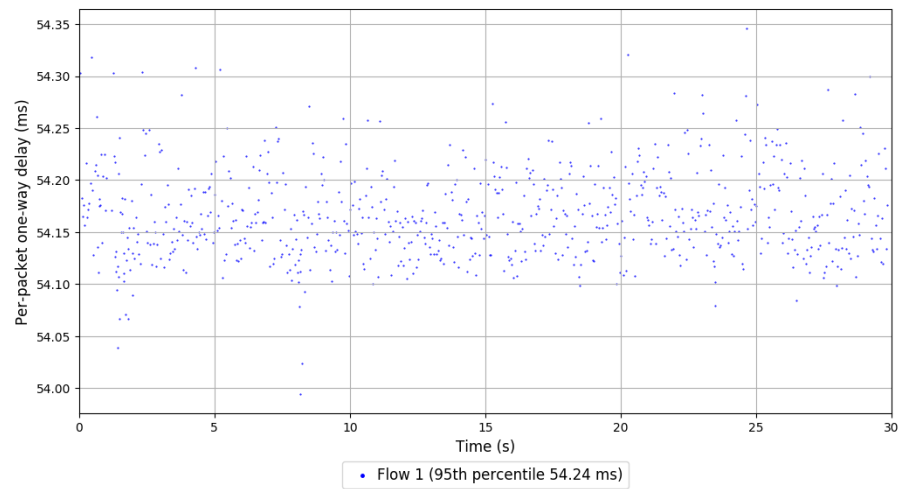
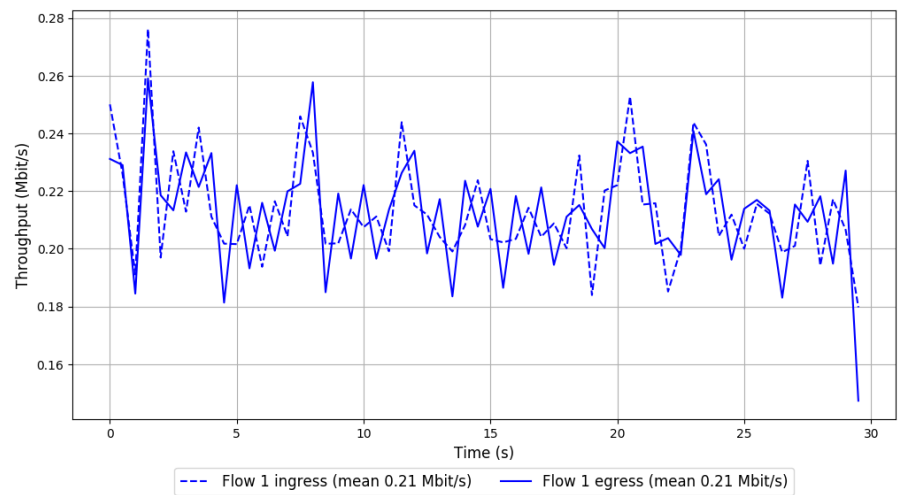


```
Run 10: Statistics of SReAM

Start at: 2017-08-17 01:13:22
End at: 2017-08-17 01:13:52

# Below is generated by plot.py at 2017-08-17 03:48:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 54.244 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 54.244 ms
Loss rate: 0.38%
```

Run 10: Report of SCRaM — Data Link

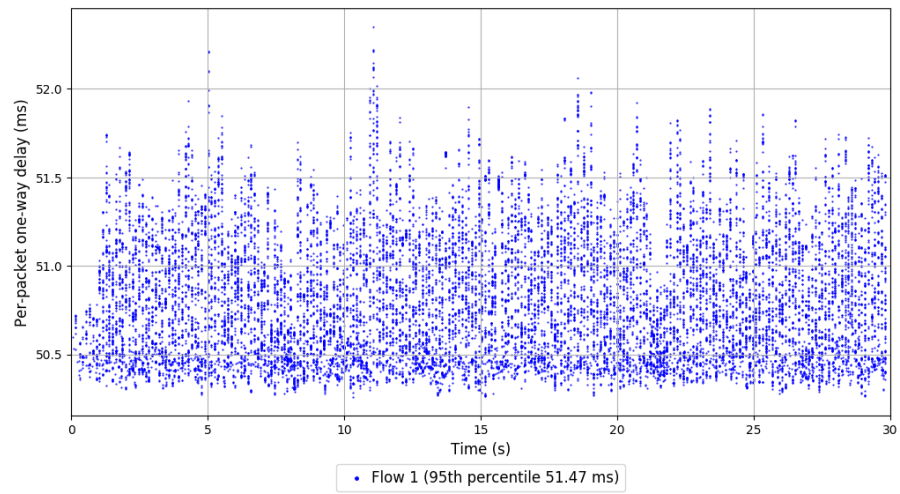
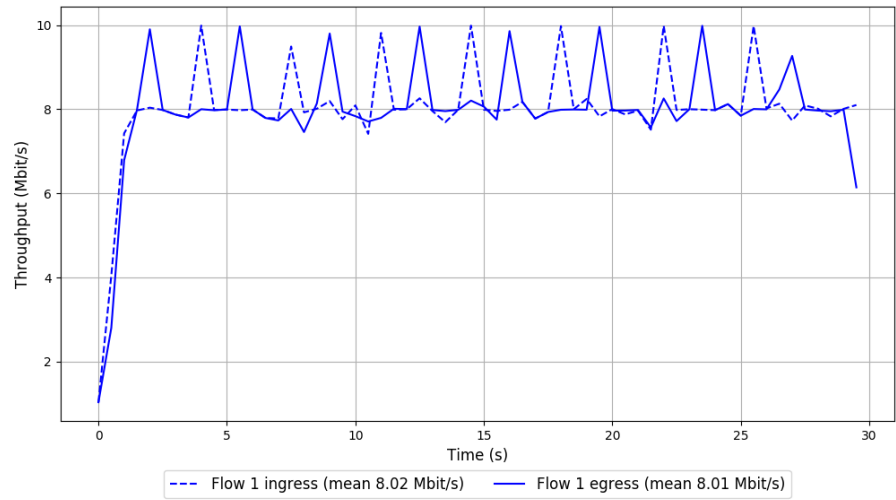


```
Run 1: Statistics of Sprout

Start at: 2017-08-16 23:35:19
End at: 2017-08-16 23:35:49

# Below is generated by plot.py at 2017-08-17 03:48:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 8.01 Mbit/s
95th percentile per-packet one-way delay: 51.472 ms
Loss rate: 0.46%
-- Flow 1:
Average throughput: 8.01 Mbit/s
95th percentile per-packet one-way delay: 51.472 ms
Loss rate: 0.46%
```


Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2017-08-16 23:45:37

End at: 2017-08-16 23:46:07

Below is generated by plot.py at 2017-08-17 03:48:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.85 Mbit/s

95th percentile per-packet one-way delay: 51.135 ms

Loss rate: 0.54%

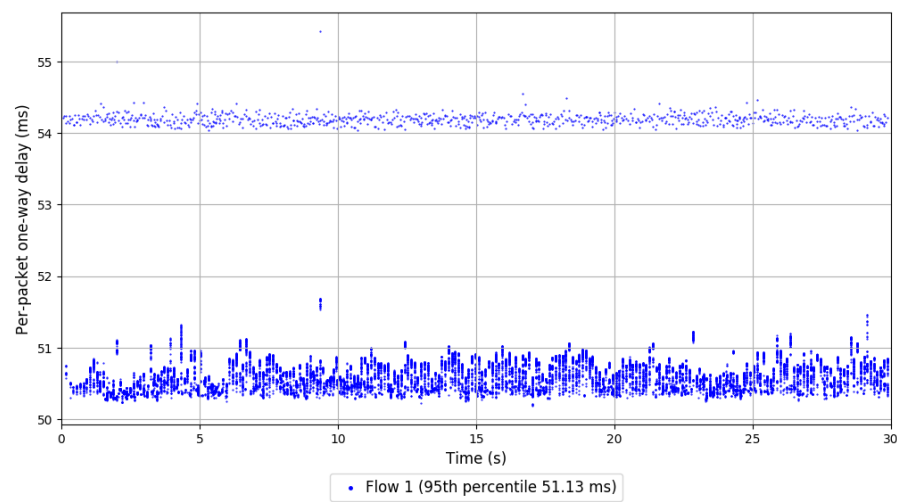
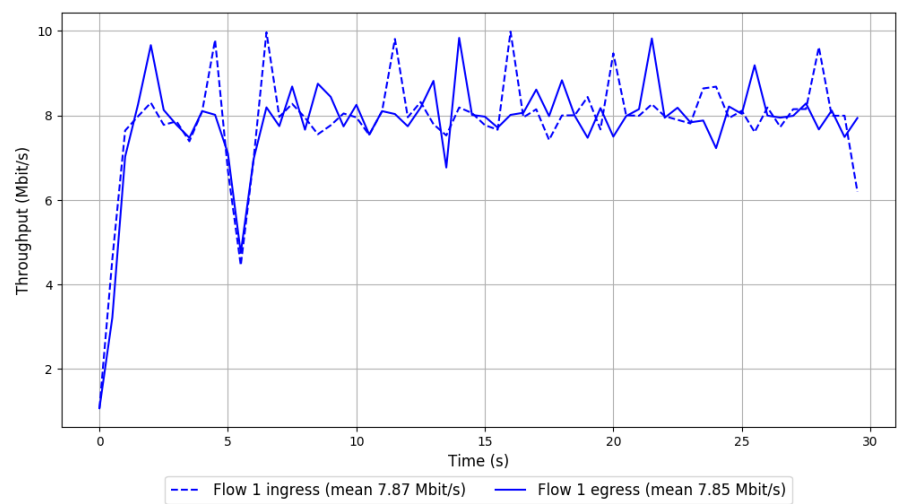
-- Flow 1:

Average throughput: 7.85 Mbit/s

95th percentile per-packet one-way delay: 51.135 ms

Loss rate: 0.54%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2017-08-16 23:56:00

End at: 2017-08-16 23:56:30

Below is generated by plot.py at 2017-08-17 03:48:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.81 Mbit/s

95th percentile per-packet one-way delay: 50.885 ms

Loss rate: 1.46%

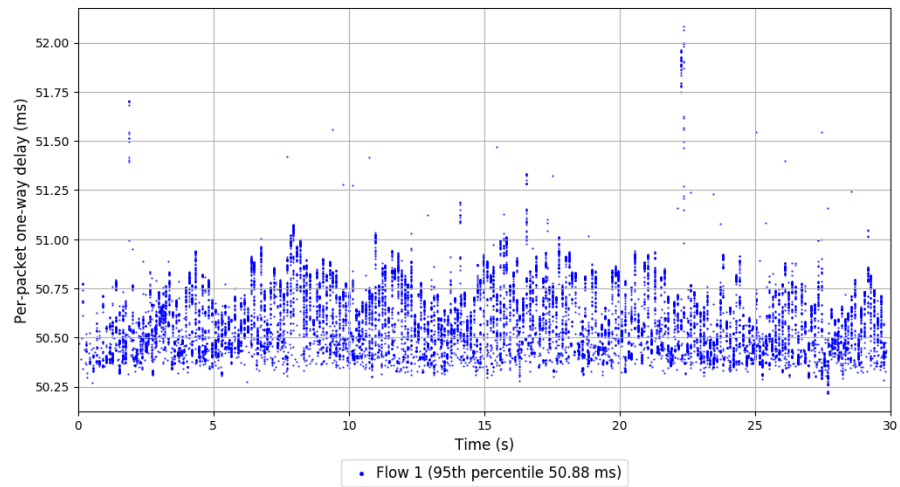
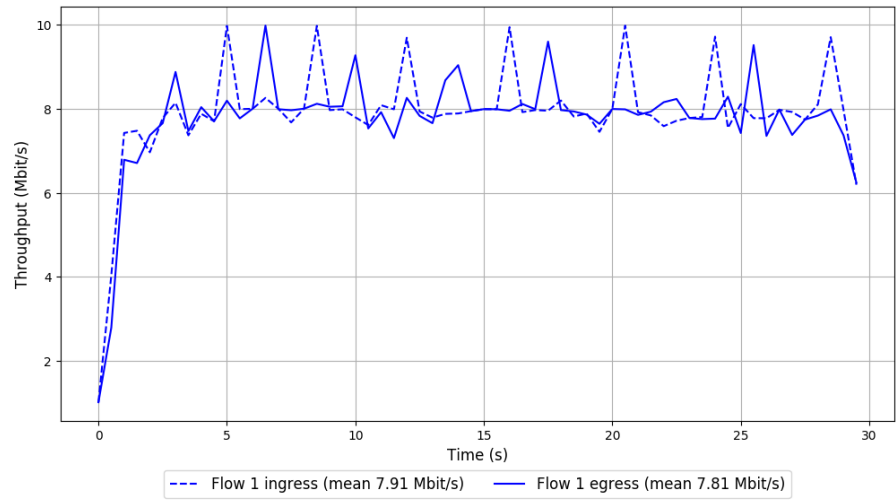
-- Flow 1:

Average throughput: 7.81 Mbit/s

95th percentile per-packet one-way delay: 50.885 ms

Loss rate: 1.46%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2017-08-17 00:06:14

End at: 2017-08-17 00:06:44

Below is generated by plot.py at 2017-08-17 03:48:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.84 Mbit/s

95th percentile per-packet one-way delay: 53.425 ms

Loss rate: 14.57%

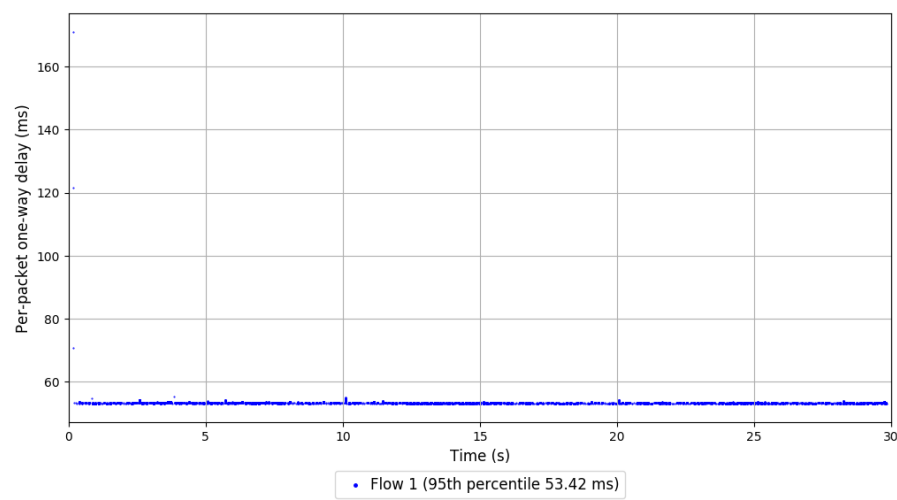
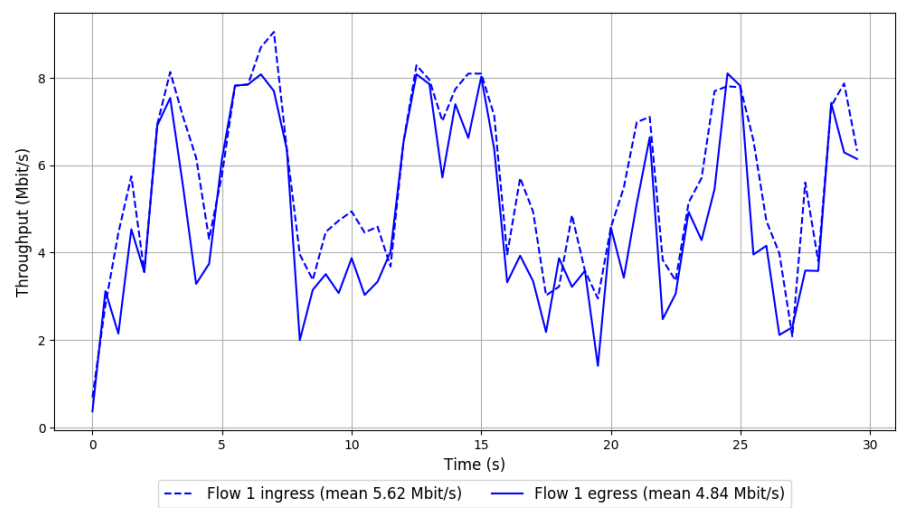
-- Flow 1:

Average throughput: 4.84 Mbit/s

95th percentile per-packet one-way delay: 53.425 ms

Loss rate: 14.57%

Run 4: Report of Sprout — Data Link

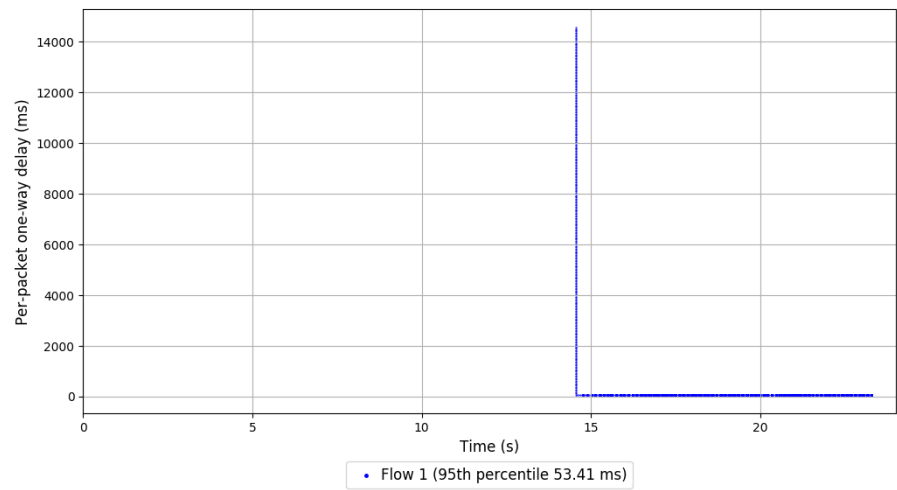
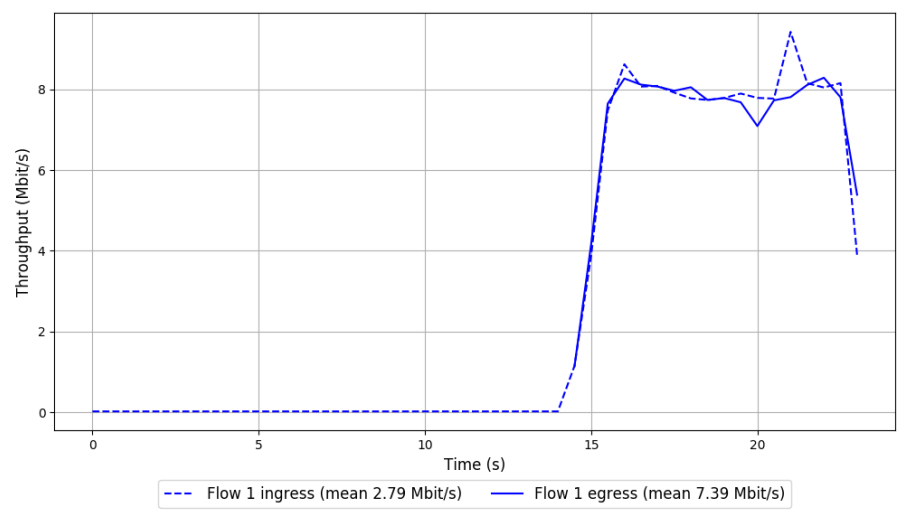


Run 5: Statistics of Sprout

Start at: 2017-08-17 00:16:40

End at: 2017-08-17 00:17:10

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2017-08-17 00:27:19

End at: 2017-08-17 00:27:49

Below is generated by plot.py at 2017-08-17 03:48:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.78 Mbit/s

95th percentile per-packet one-way delay: 51.388 ms

Loss rate: 0.72%

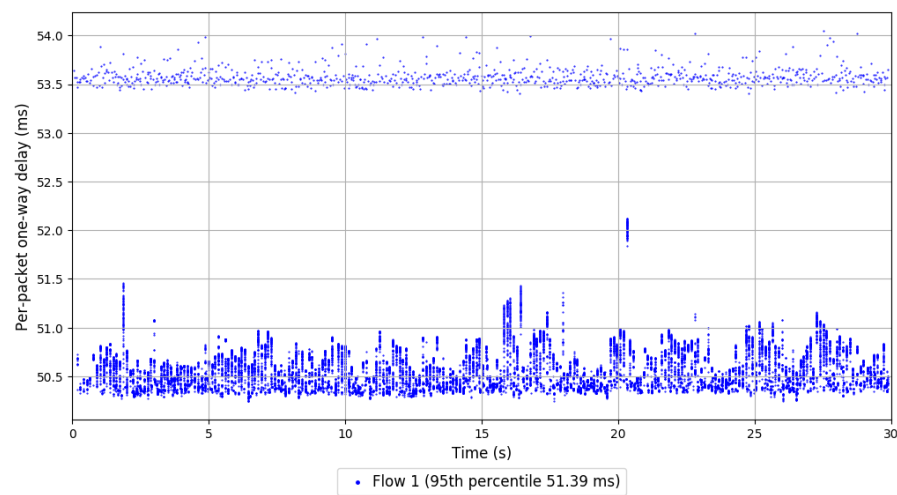
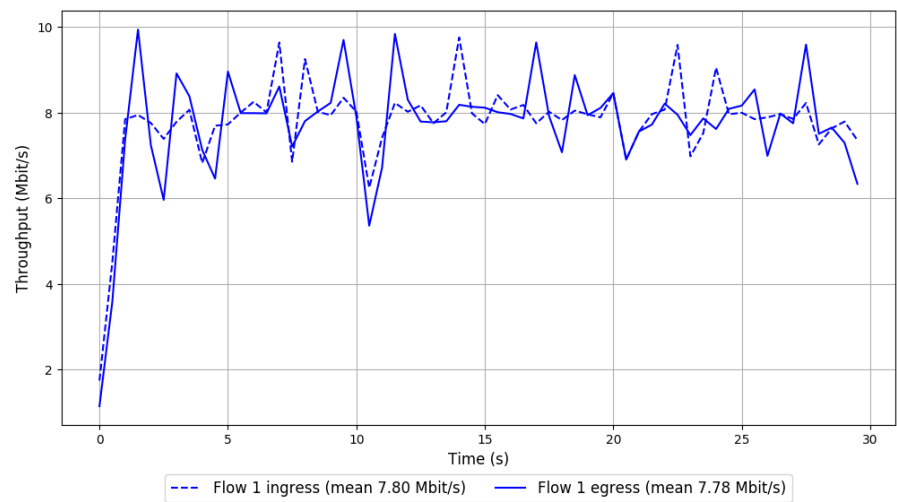
-- Flow 1:

Average throughput: 7.78 Mbit/s

95th percentile per-packet one-way delay: 51.388 ms

Loss rate: 0.72%

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: 2017-08-17 00:36:54

End at: 2017-08-17 00:37:24

Below is generated by plot.py at 2017-08-17 03:48:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.28 Mbit/s

95th percentile per-packet one-way delay: 53.429 ms

Loss rate: 17.42%

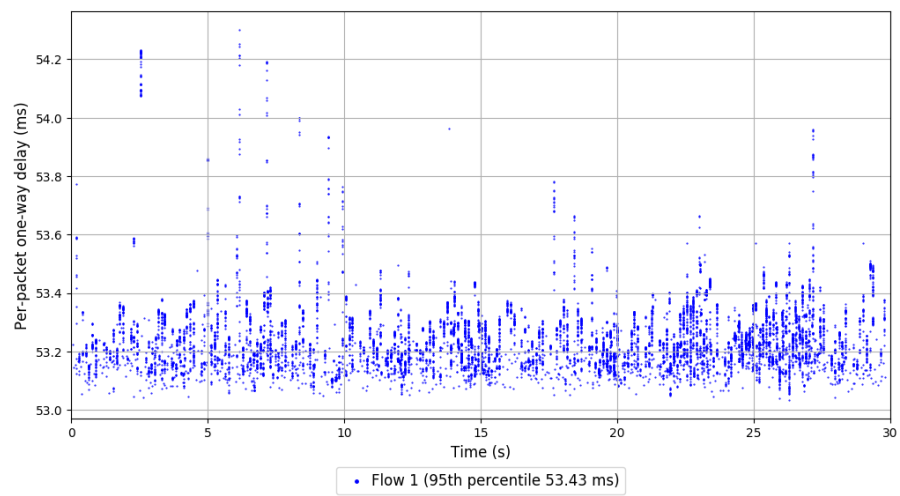
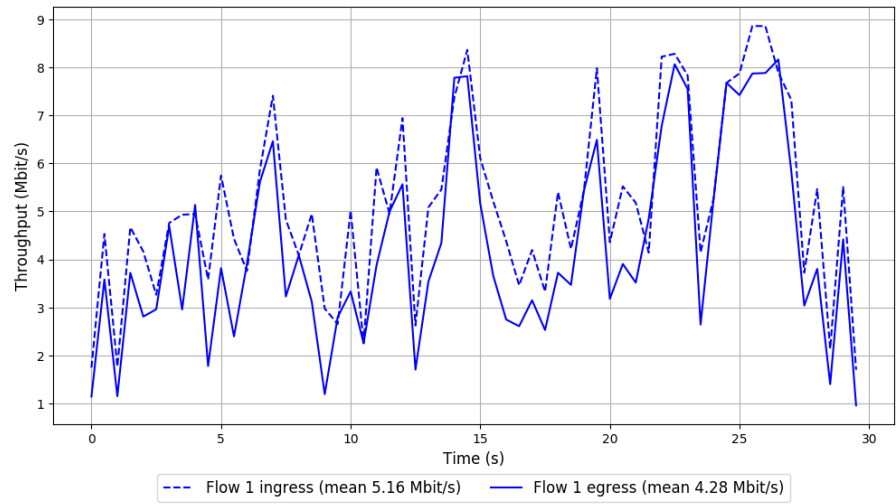
-- Flow 1:

Average throughput: 4.28 Mbit/s

95th percentile per-packet one-way delay: 53.429 ms

Loss rate: 17.42%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2017-08-17 00:46:55

End at: 2017-08-17 00:47:25

Below is generated by plot.py at 2017-08-17 03:48:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.78 Mbit/s

95th percentile per-packet one-way delay: 51.718 ms

Loss rate: 0.50%

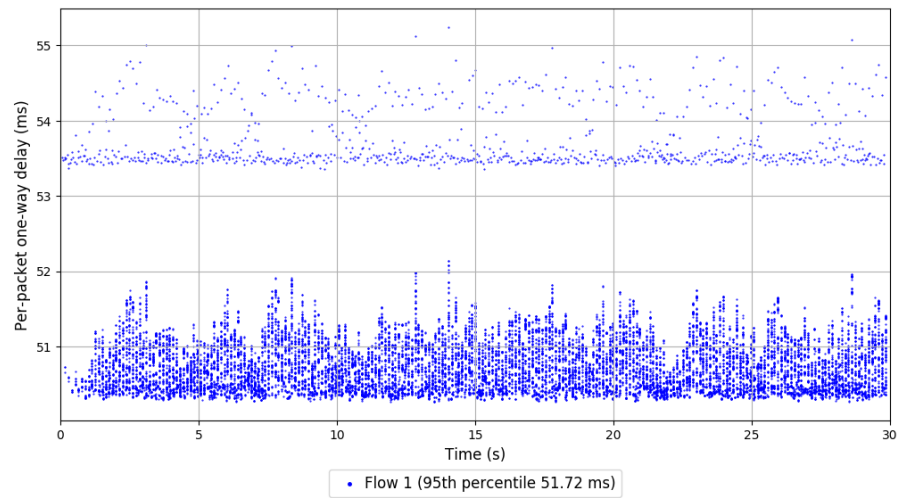
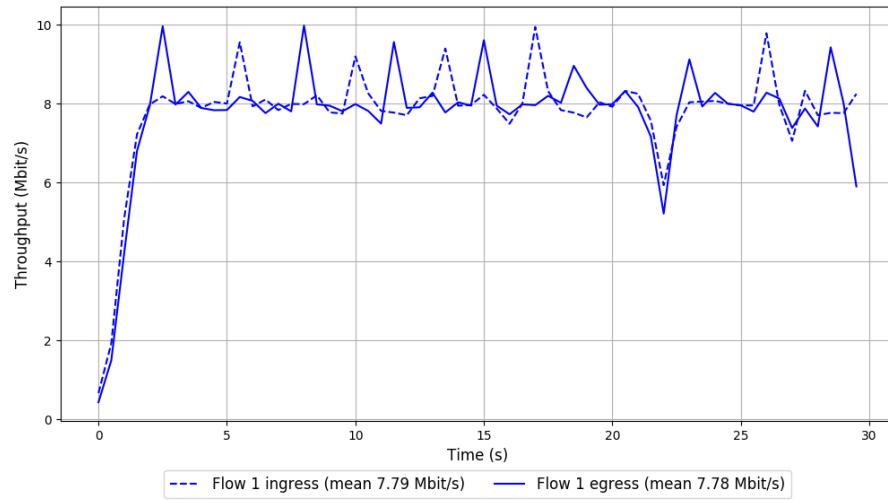
-- Flow 1:

Average throughput: 7.78 Mbit/s

95th percentile per-packet one-way delay: 51.718 ms

Loss rate: 0.50%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2017-08-17 00:56:53

End at: 2017-08-17 00:57:23

Below is generated by plot.py at 2017-08-17 03:48:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.74 Mbit/s

95th percentile per-packet one-way delay: 51.096 ms

Loss rate: 0.98%

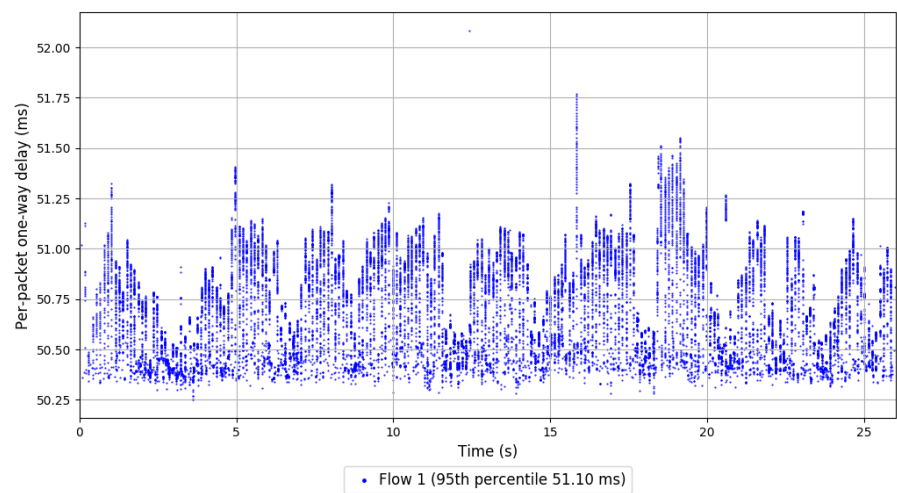
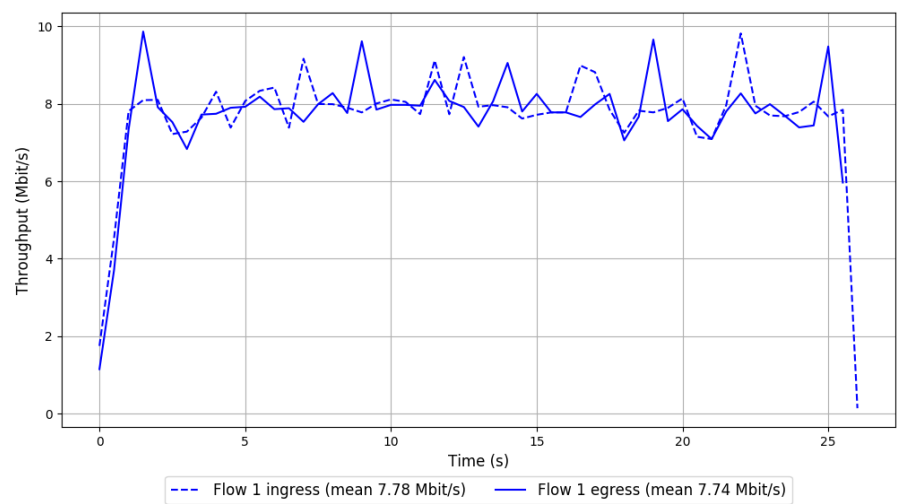
-- Flow 1:

Average throughput: 7.74 Mbit/s

95th percentile per-packet one-way delay: 51.096 ms

Loss rate: 0.98%

Run 9: Report of Sprout — Data Link

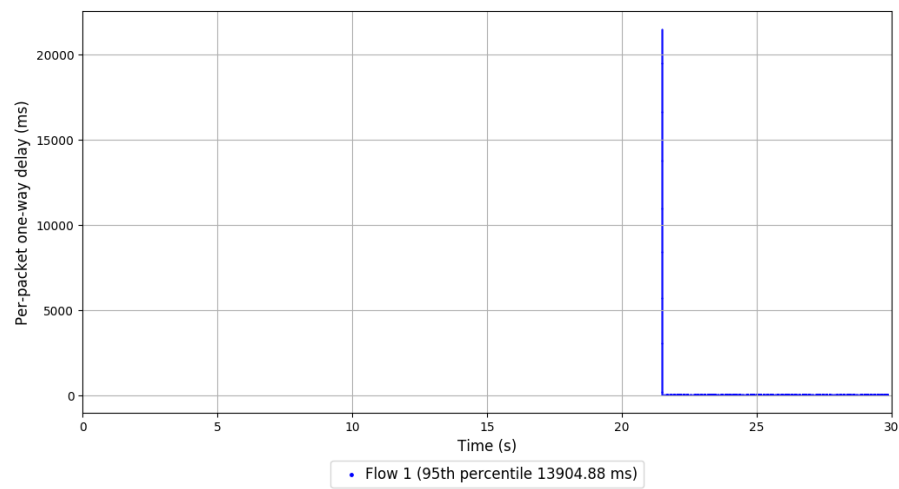
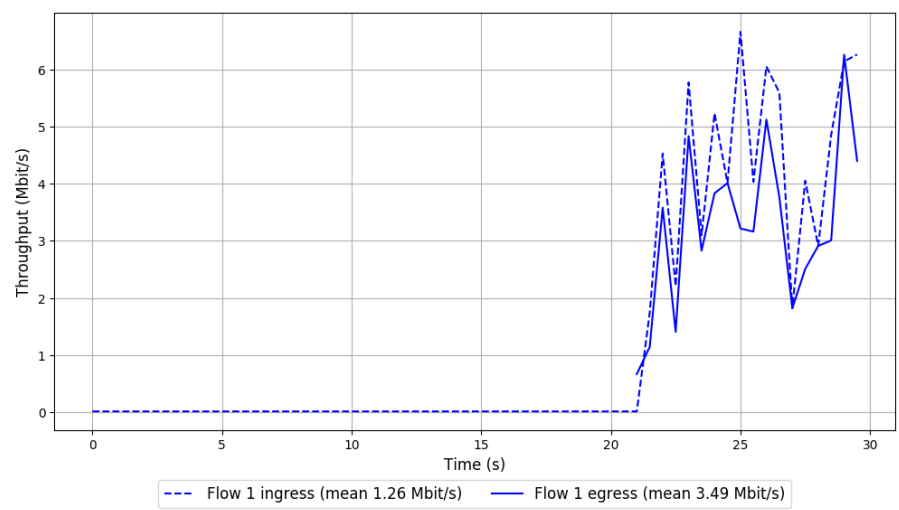


Run 10: Statistics of Sprout

Start at: 2017-08-17 01:07:11

End at: 2017-08-17 01:07:41

Run 10: Report of Sprout — Data Link

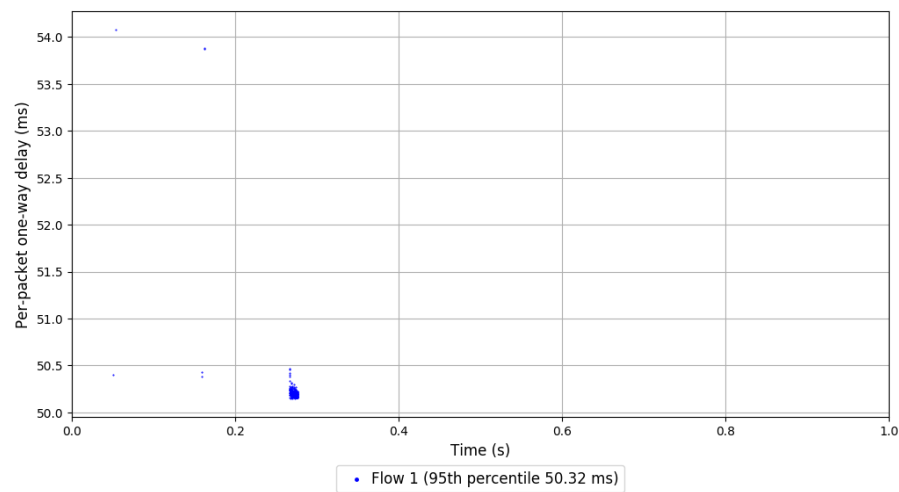
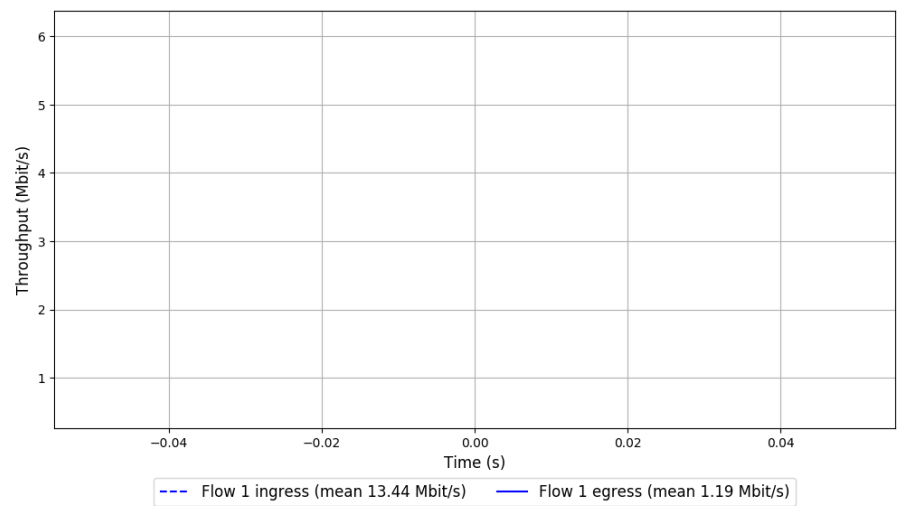


Run 1: Statistics of TaoVA-100x

Start at: 2017-08-16 23:45:00

End at: 2017-08-16 23:45:30

Run 1: Report of TaoVA-100x — Data Link

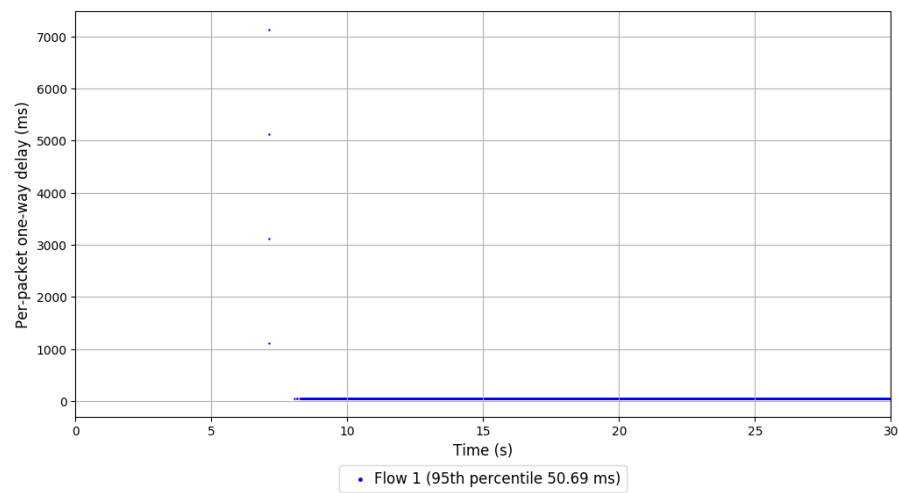
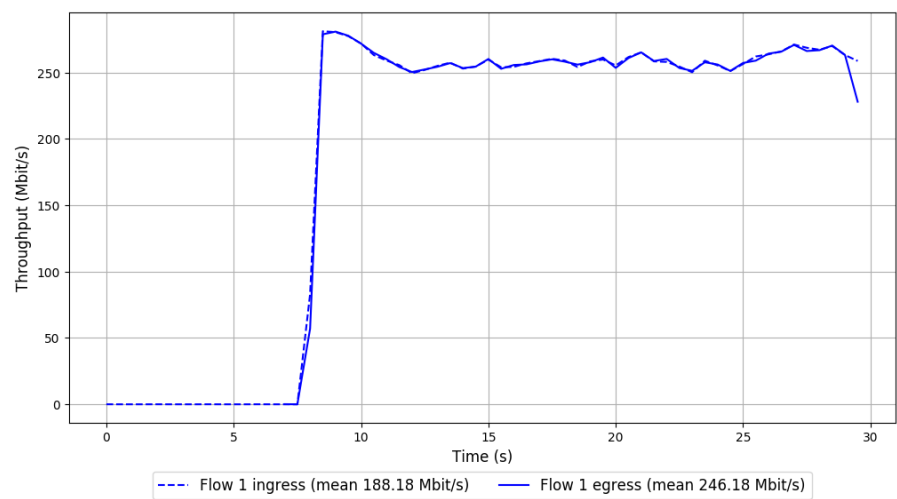


Run 2: Statistics of TaoVA-100x

Start at: 2017-08-16 23:55:06

End at: 2017-08-16 23:55:36

Run 2: Report of TaoVA-100x — Data Link

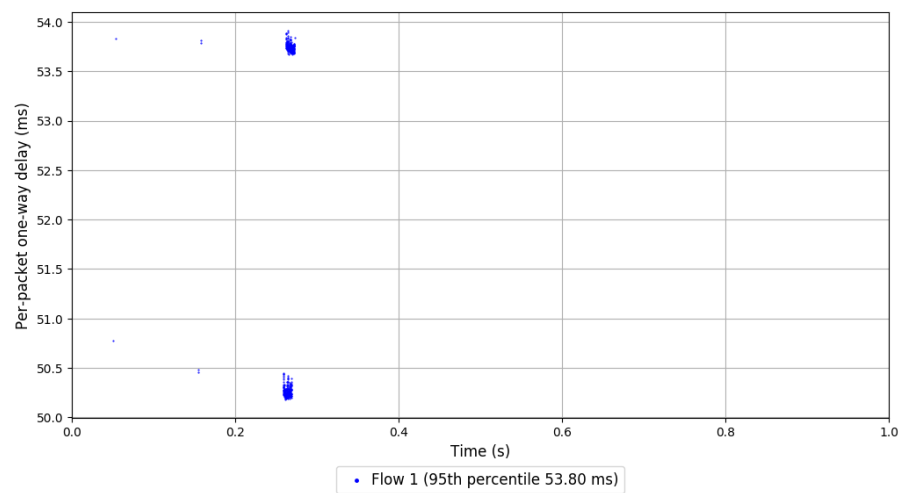
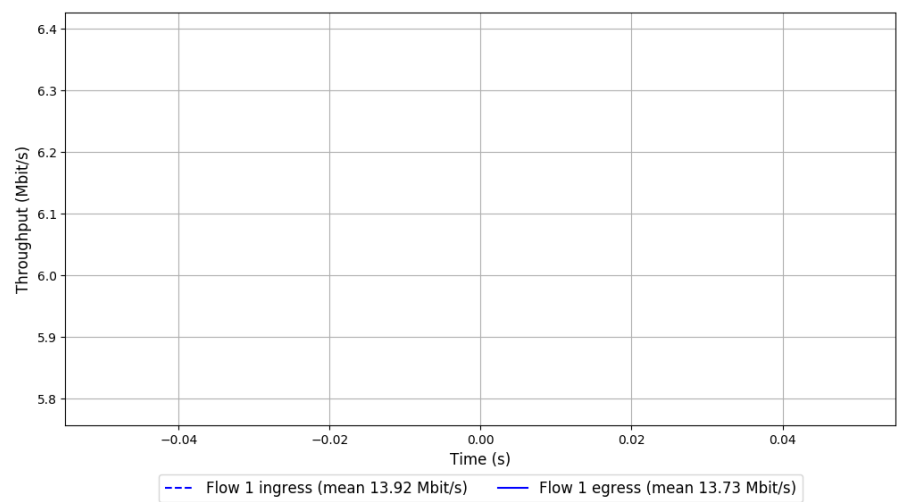


Run 3: Statistics of TaoVA-100x

Start at: 2017-08-17 00:05:37

End at: 2017-08-17 00:06:07

Run 3: Report of TaoVA-100x — Data Link

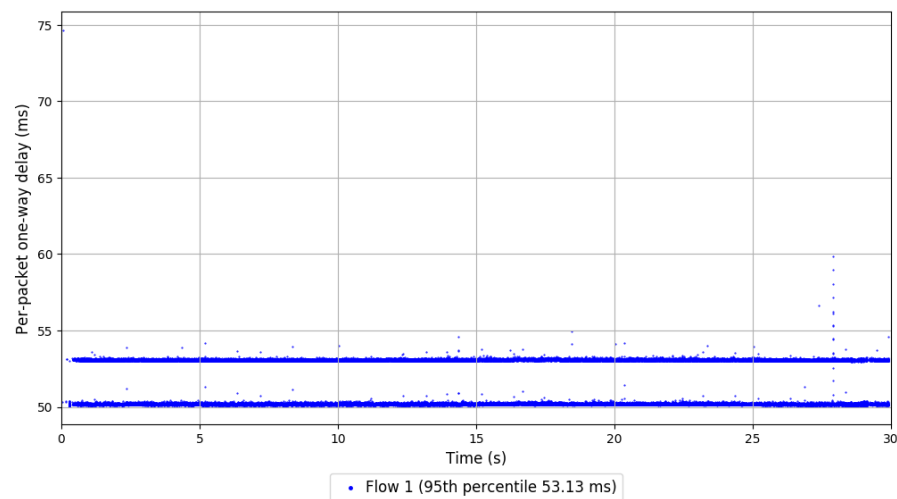
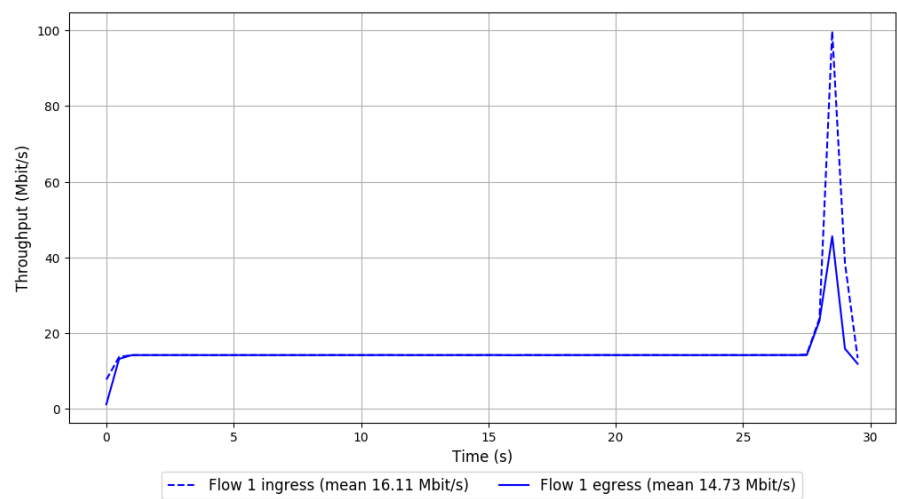


```
Run 4: Statistics of TaoVA-100x

Start at: 2017-08-17 00:16:01
End at: 2017-08-17 00:16:31

# Below is generated by plot.py at 2017-08-17 03:50:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 14.73 Mbit/s
95th percentile per-packet one-way delay: 53.130 ms
Loss rate: 8.92%
-- Flow 1:
Average throughput: 14.73 Mbit/s
95th percentile per-packet one-way delay: 53.130 ms
Loss rate: 8.92%
```

Run 4: Report of TaoVA-100x — Data Link

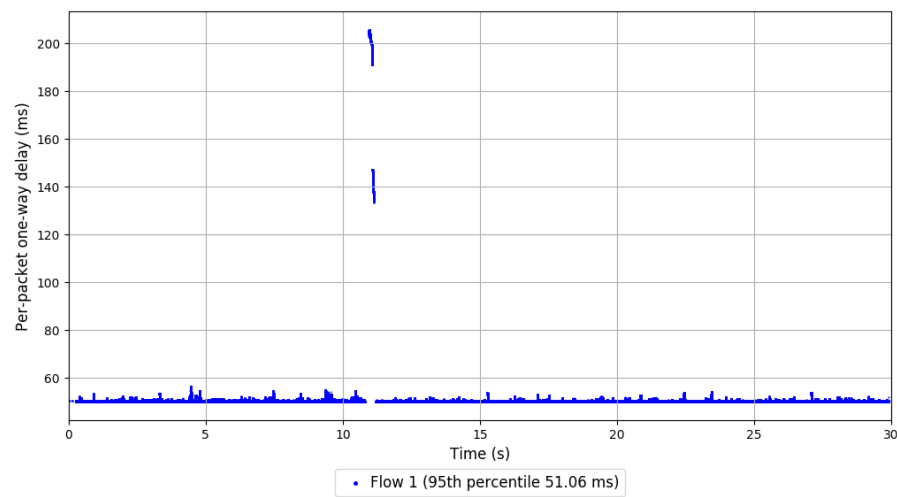
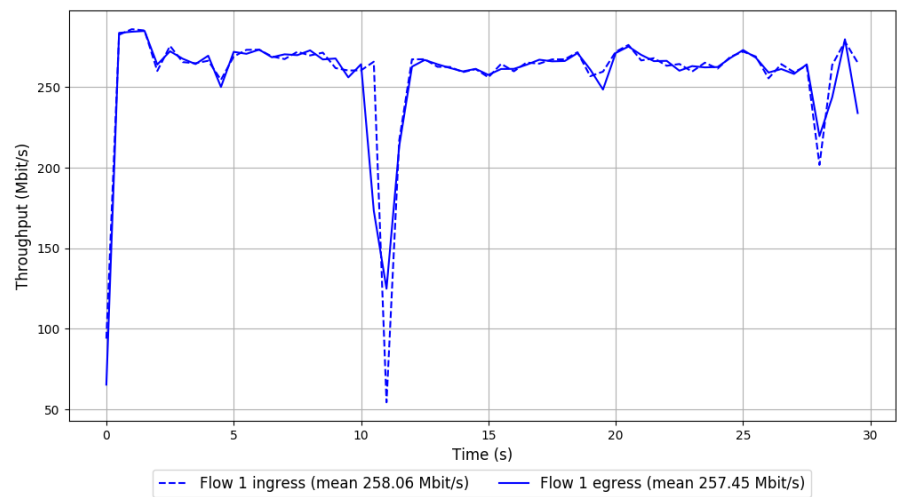


```
Run 5: Statistics of TaoVA-100x

Start at: 2017-08-17 00:26:15
End at: 2017-08-17 00:26:45

# Below is generated by plot.py at 2017-08-17 03:50:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 257.45 Mbit/s
95th percentile per-packet one-way delay: 51.056 ms
Loss rate: 0.60%
-- Flow 1:
Average throughput: 257.45 Mbit/s
95th percentile per-packet one-way delay: 51.056 ms
Loss rate: 0.60%
```

Run 5: Report of TaoVA-100x — Data Link

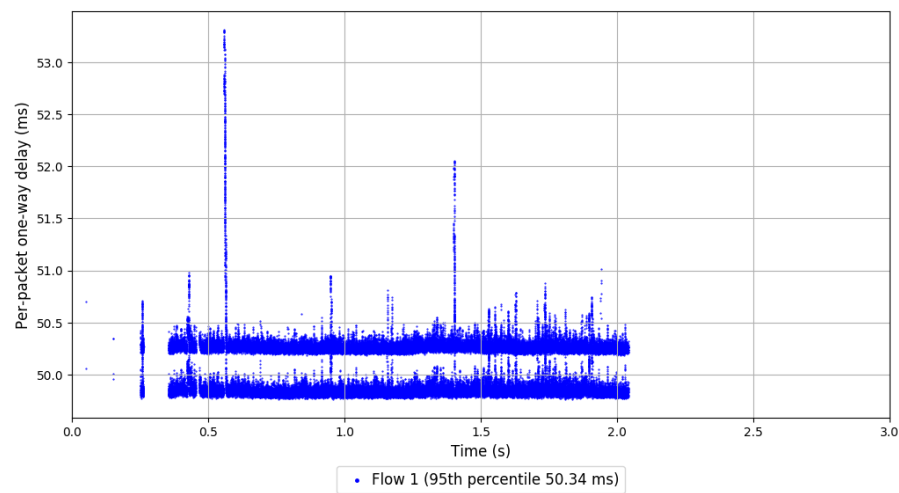
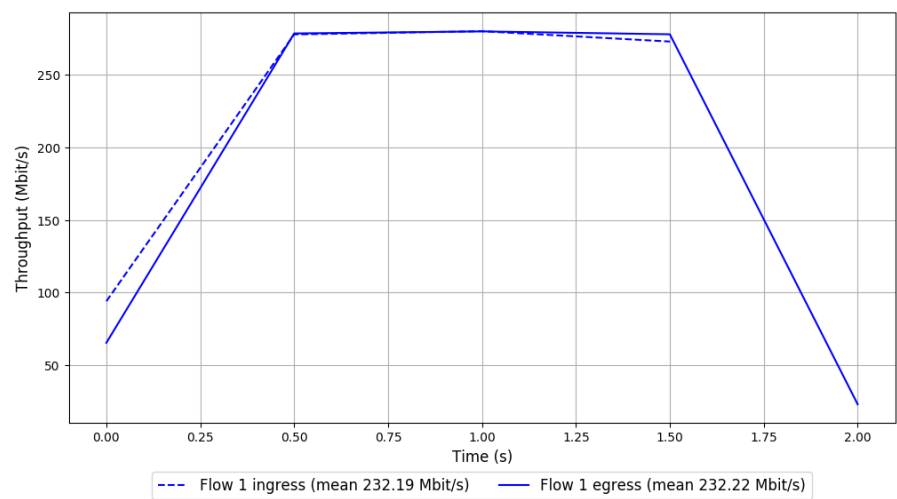


Run 6: Statistics of TaoVA-100x

Start at: 2017-08-17 00:36:15

End at: 2017-08-17 00:36:45

Run 6: Report of TaoVA-100x — Data Link

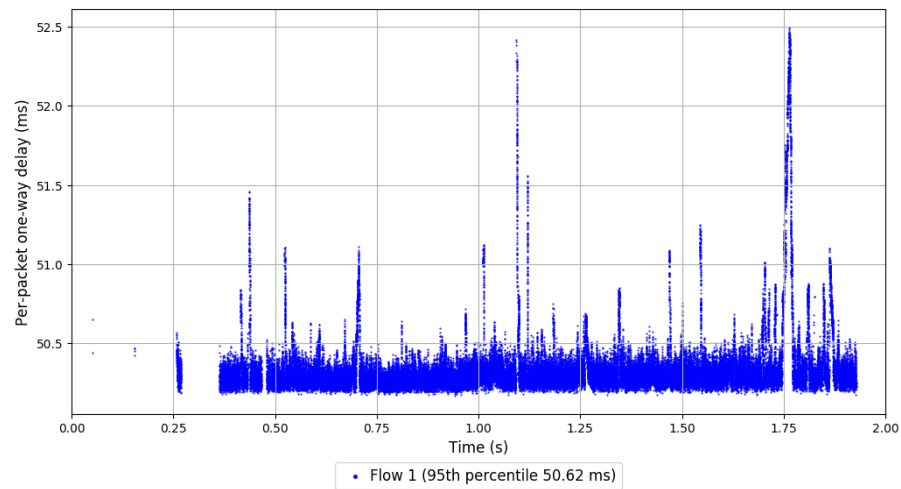
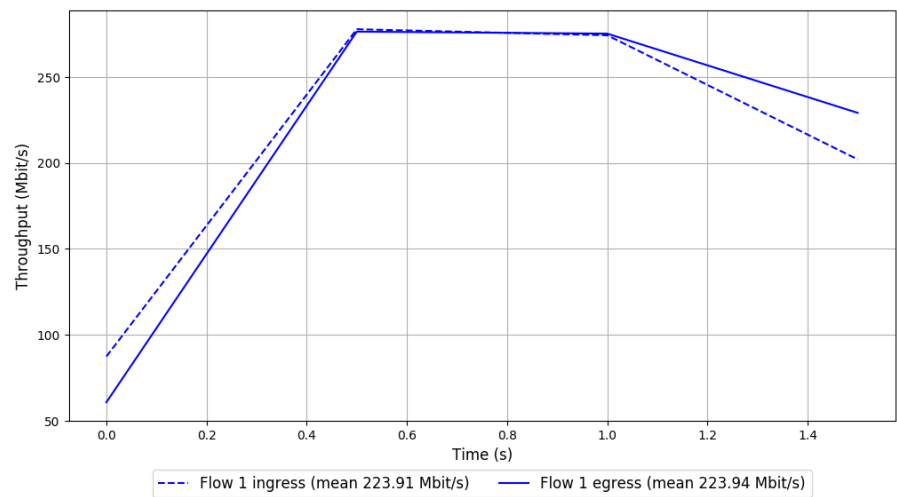


Run 7: Statistics of TaoVA-100x

Start at: 2017-08-17 00:46:17

End at: 2017-08-17 00:46:47

Run 7: Report of TaoVA-100x — Data Link

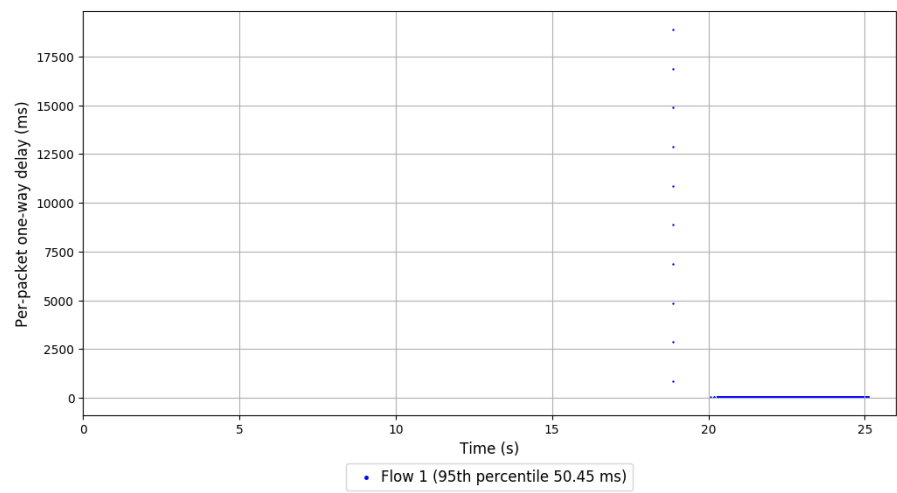
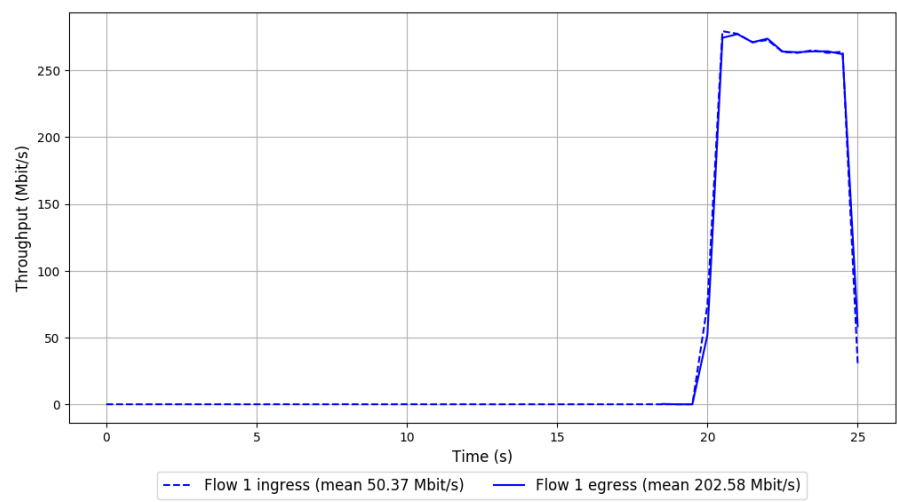


Run 8: Statistics of TaoVA-100x

Start at: 2017-08-17 00:56:12

End at: 2017-08-17 00:56:42

Run 8: Report of TaoVA-100x — Data Link

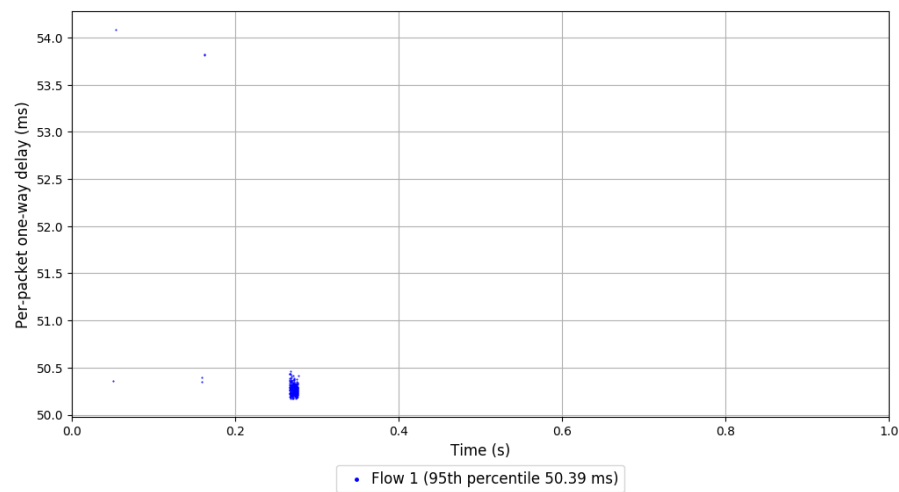
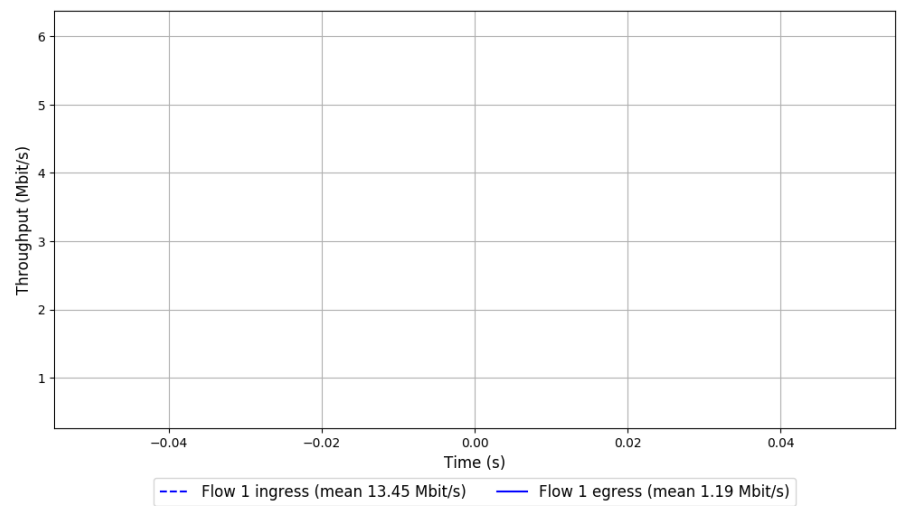


Run 9: Statistics of TaoVA-100x

Start at: 2017-08-17 01:06:34

End at: 2017-08-17 01:07:04

Run 9: Report of TaoVA-100x — Data Link

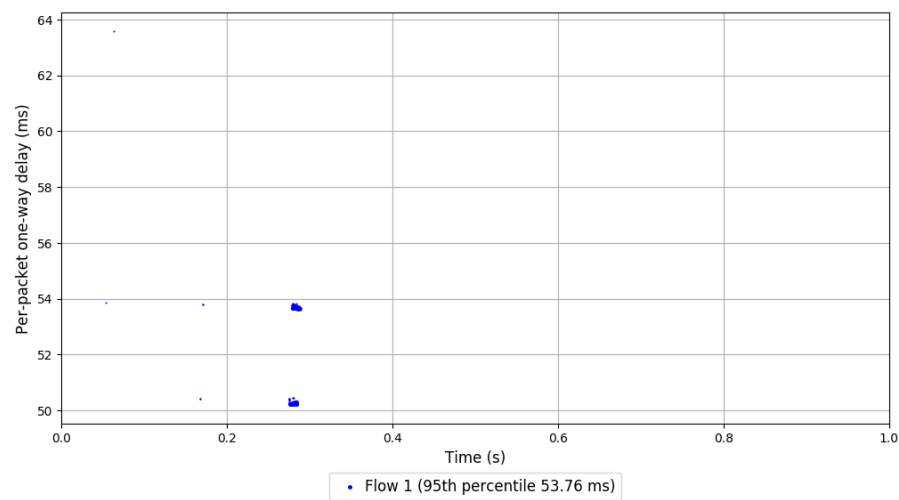
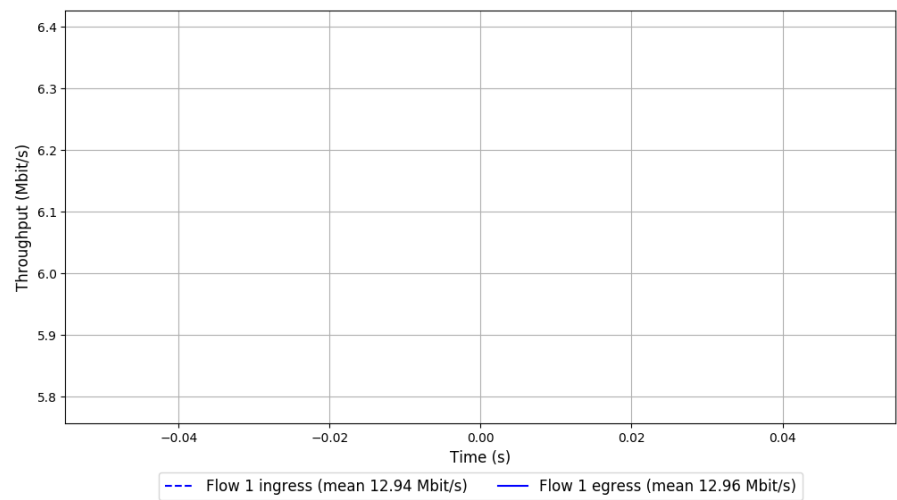


Run 10: Statistics of TaoVA-100x

Start at: 2017-08-17 01:16:51

End at: 2017-08-17 01:17:21

Run 10: Report of TaoVA-100x — Data Link



Run 1: Statistics of TCP Vegas

Start at: 2017-08-16 23:42:09

End at: 2017-08-16 23:42:39

Below is generated by plot.py at 2017-08-17 03:50:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.79 Mbit/s

95th percentile per-packet one-way delay: 53.347 ms

Loss rate: 1.25%

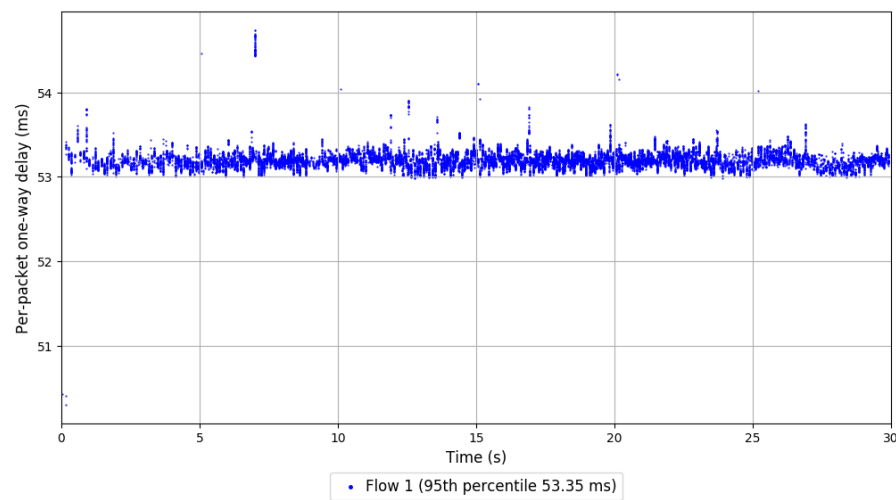
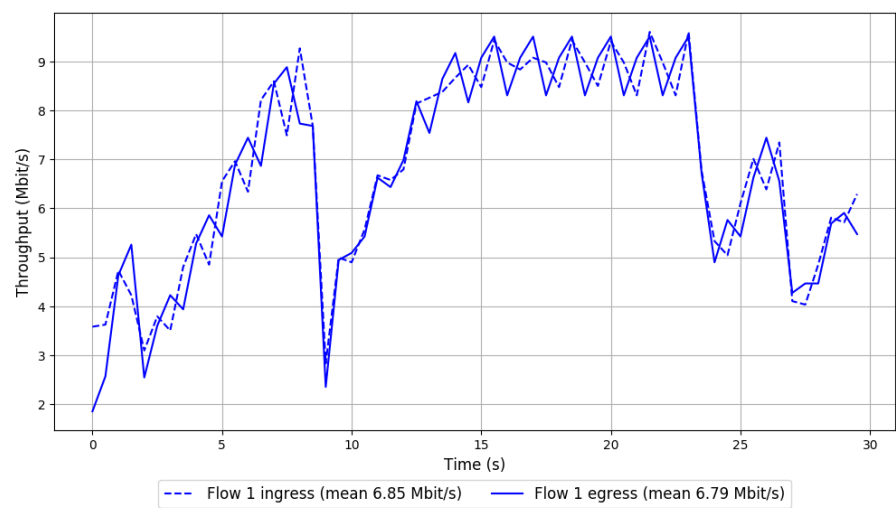
-- Flow 1:

Average throughput: 6.79 Mbit/s

95th percentile per-packet one-way delay: 53.347 ms

Loss rate: 1.25%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2017-08-16 23:52:12

End at: 2017-08-16 23:52:42

Below is generated by plot.py at 2017-08-17 03:50:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.37 Mbit/s

95th percentile per-packet one-way delay: 53.380 ms

Loss rate: 2.14%

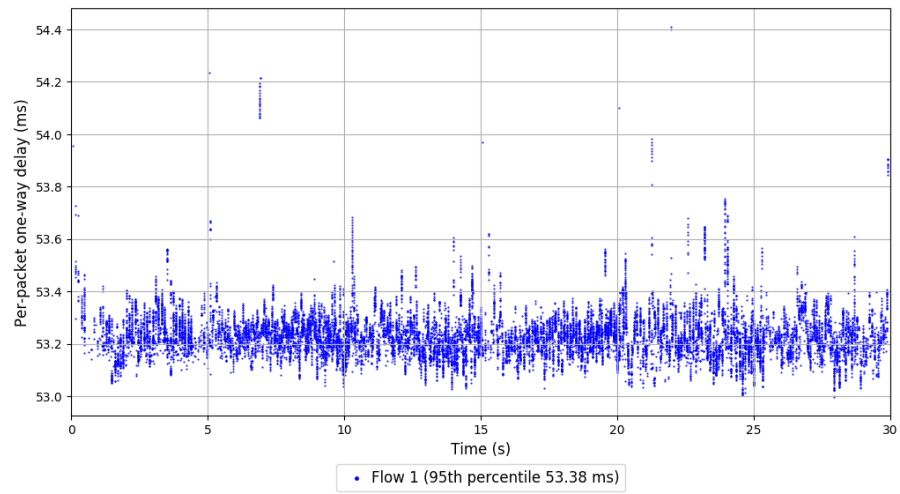
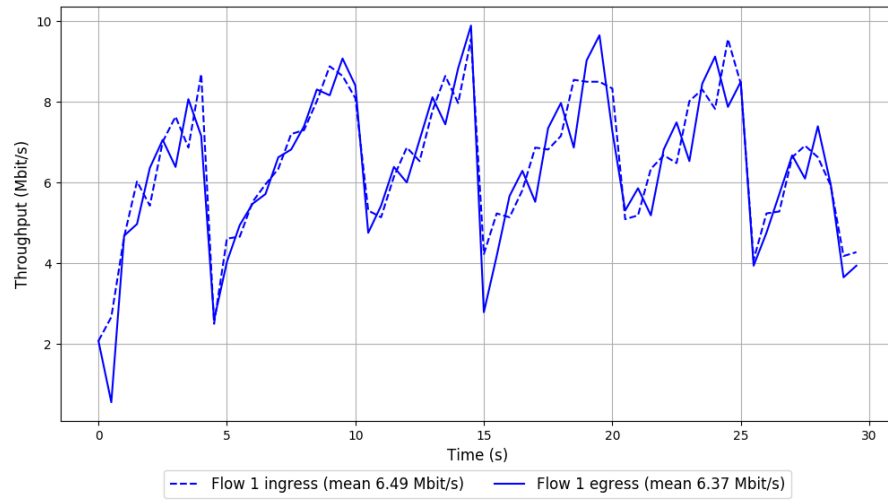
-- Flow 1:

Average throughput: 6.37 Mbit/s

95th percentile per-packet one-way delay: 53.380 ms

Loss rate: 2.14%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2017-08-17 00:02:52

End at: 2017-08-17 00:03:22

Below is generated by plot.py at 2017-08-17 03:50:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 24.95 Mbit/s

95th percentile per-packet one-way delay: 50.965 ms

Loss rate: 2.39%

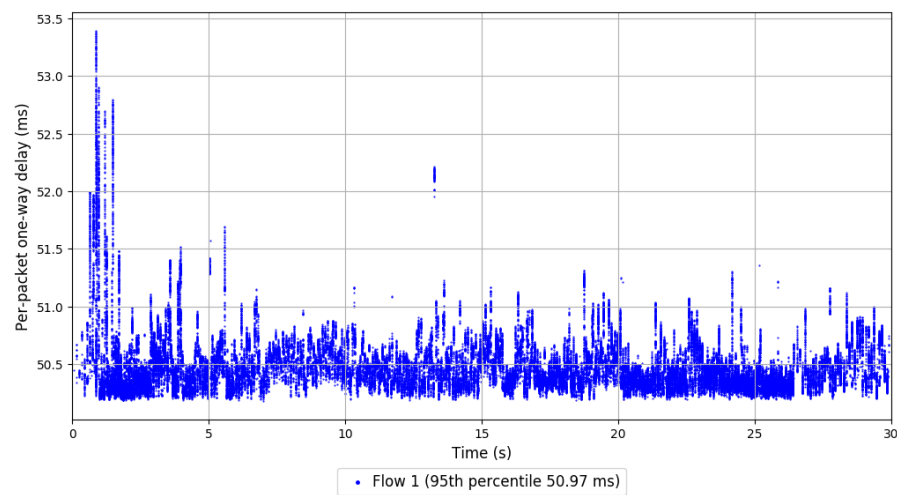
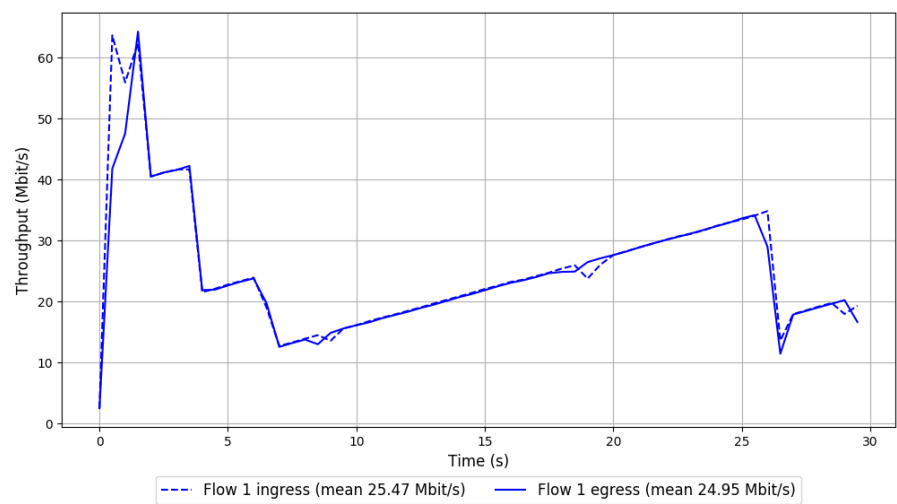
-- Flow 1:

Average throughput: 24.95 Mbit/s

95th percentile per-packet one-way delay: 50.965 ms

Loss rate: 2.39%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2017-08-17 00:13:18

End at: 2017-08-17 00:13:48

Below is generated by plot.py at 2017-08-17 03:50:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 51.08 Mbit/s

95th percentile per-packet one-way delay: 51.217 ms

Loss rate: 0.30%

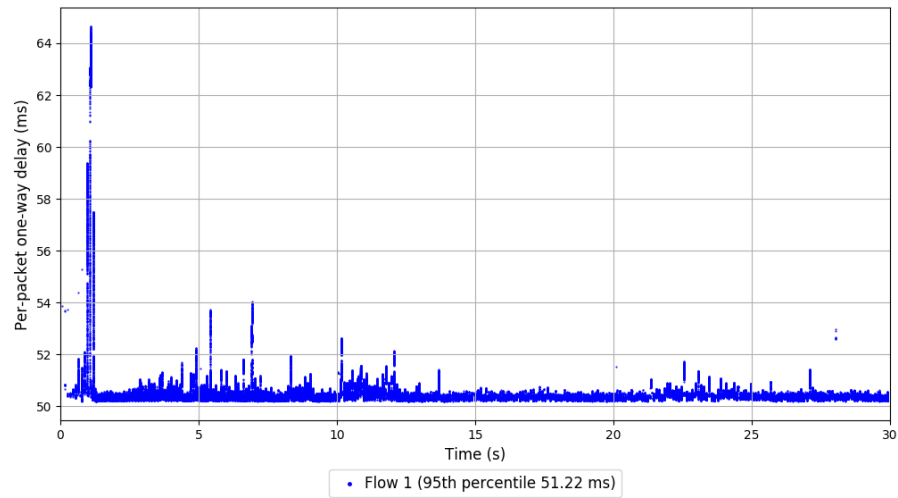
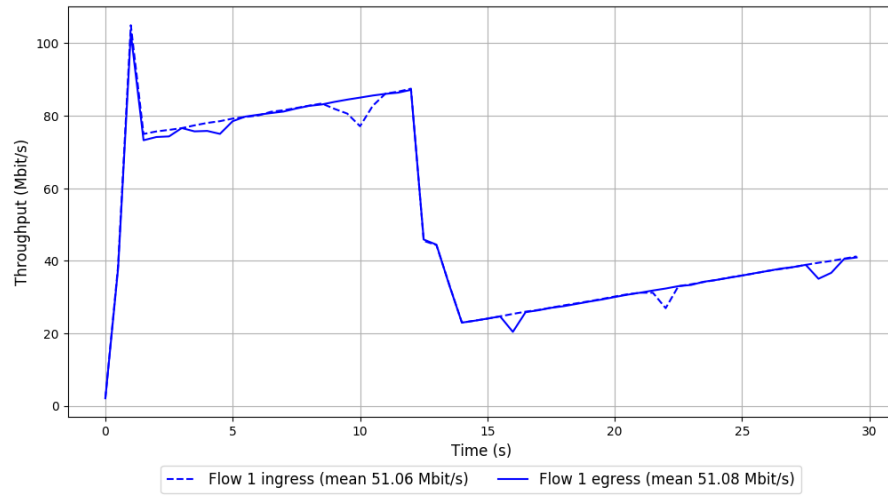
-- Flow 1:

Average throughput: 51.08 Mbit/s

95th percentile per-packet one-way delay: 51.217 ms

Loss rate: 0.30%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2017-08-17 00:23:25

End at: 2017-08-17 00:23:55

Below is generated by plot.py at 2017-08-17 03:50:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 43.29 Mbit/s

95th percentile per-packet one-way delay: 50.963 ms

Loss rate: 0.52%

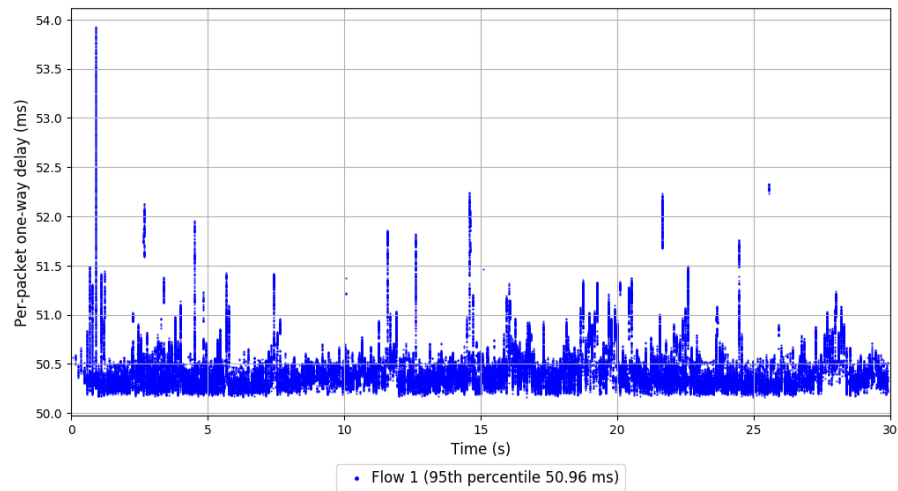
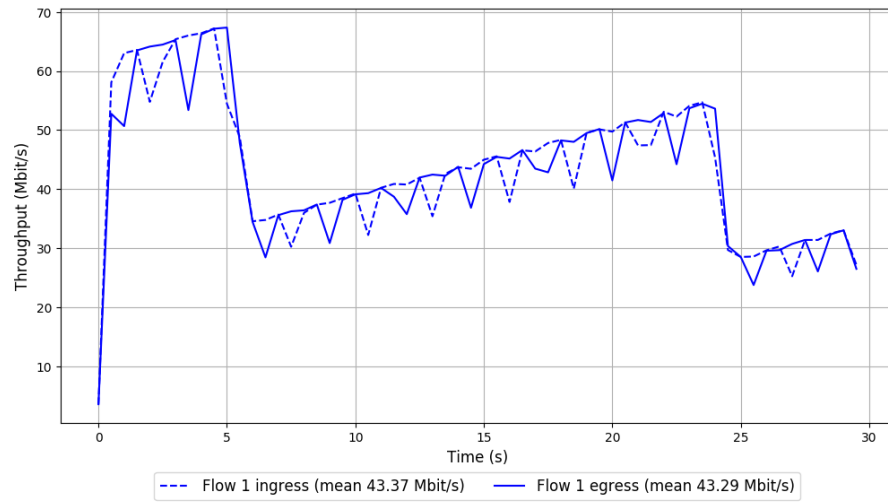
-- Flow 1:

Average throughput: 43.29 Mbit/s

95th percentile per-packet one-way delay: 50.963 ms

Loss rate: 0.52%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2017-08-17 00:33:42

End at: 2017-08-17 00:34:12

Below is generated by plot.py at 2017-08-17 03:50:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 5.97 Mbit/s

95th percentile per-packet one-way delay: 54.108 ms

Loss rate: 1.03%

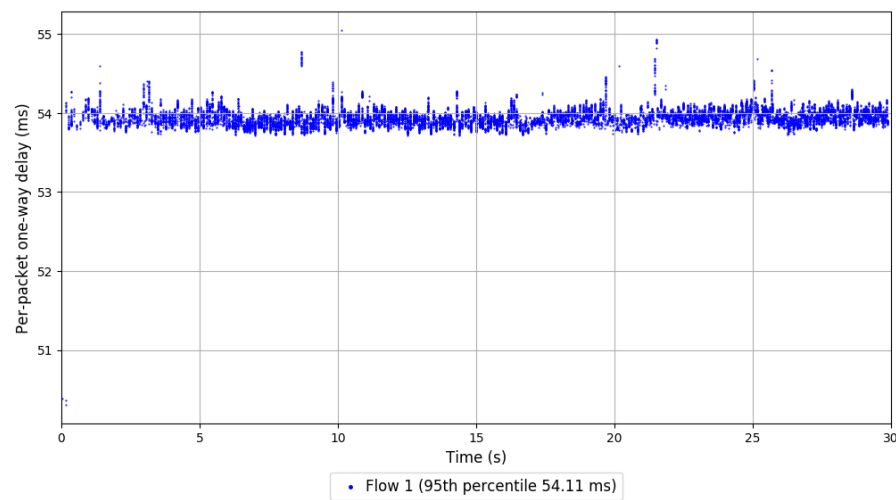
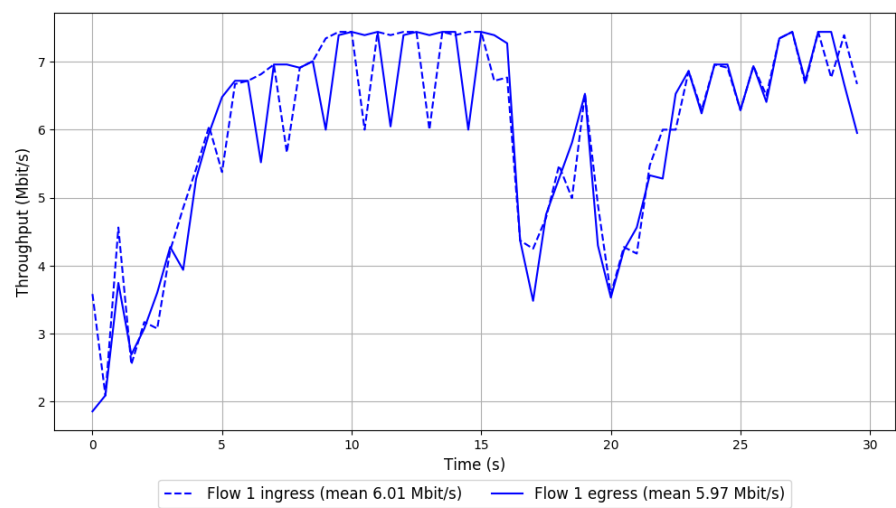
-- Flow 1:

Average throughput: 5.97 Mbit/s

95th percentile per-packet one-way delay: 54.108 ms

Loss rate: 1.03%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2017-08-17 00:43:27

End at: 2017-08-17 00:43:57

Below is generated by plot.py at 2017-08-17 03:50:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.48 Mbit/s

95th percentile per-packet one-way delay: 54.100 ms

Loss rate: 1.96%

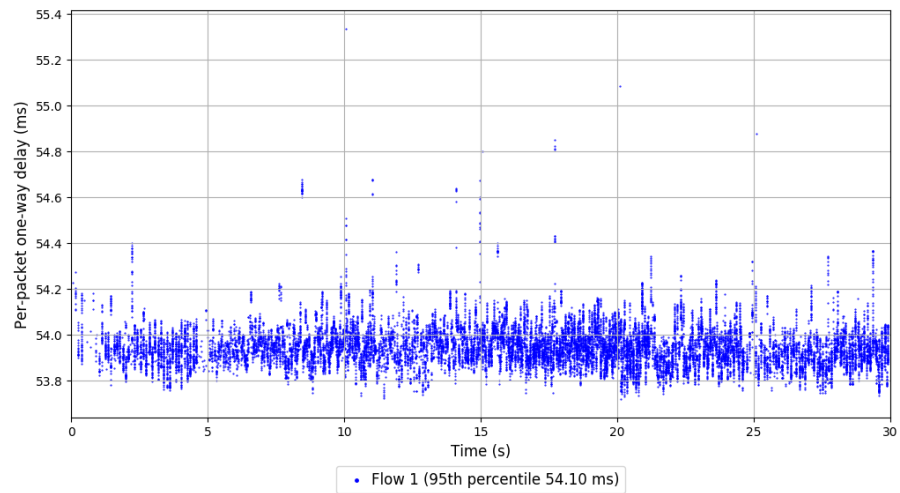
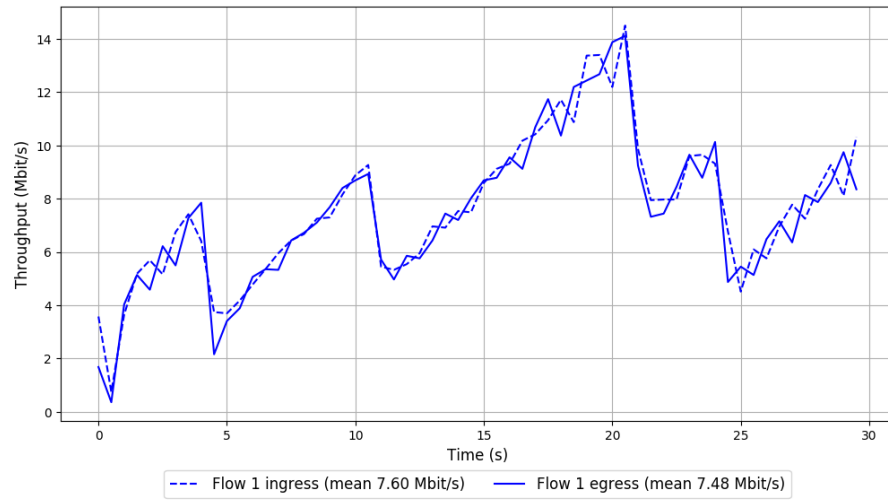
-- Flow 1:

Average throughput: 7.48 Mbit/s

95th percentile per-packet one-way delay: 54.100 ms

Loss rate: 1.96%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2017-08-17 00:53:31

End at: 2017-08-17 00:54:01

Below is generated by plot.py at 2017-08-17 03:50:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 11.71 Mbit/s

95th percentile per-packet one-way delay: 50.781 ms

Loss rate: 0.41%

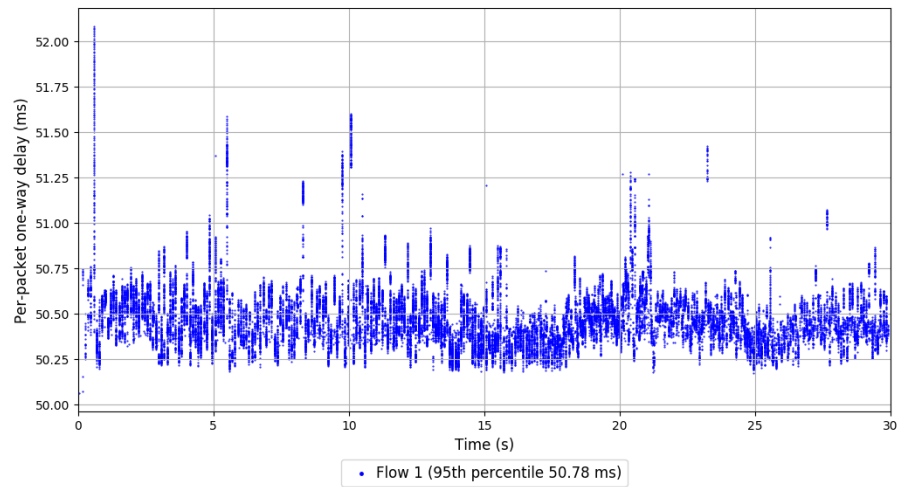
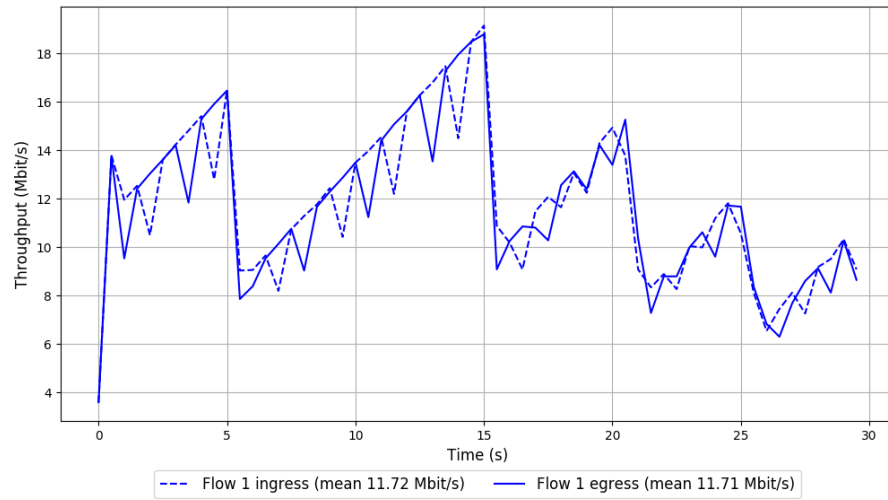
-- Flow 1:

Average throughput: 11.71 Mbit/s

95th percentile per-packet one-way delay: 50.781 ms

Loss rate: 0.41%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2017-08-17 01:03:50

End at: 2017-08-17 01:04:20

Below is generated by plot.py at 2017-08-17 03:51:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 57.35 Mbit/s

95th percentile per-packet one-way delay: 51.056 ms

Loss rate: 0.21%

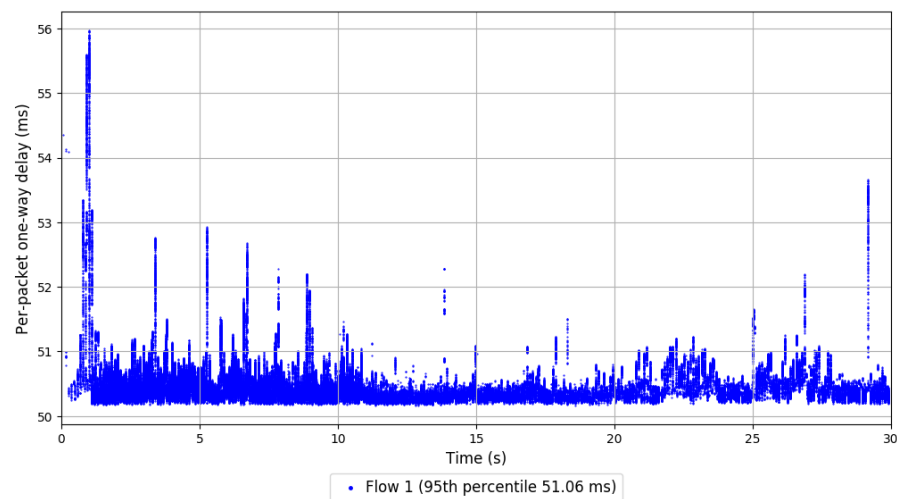
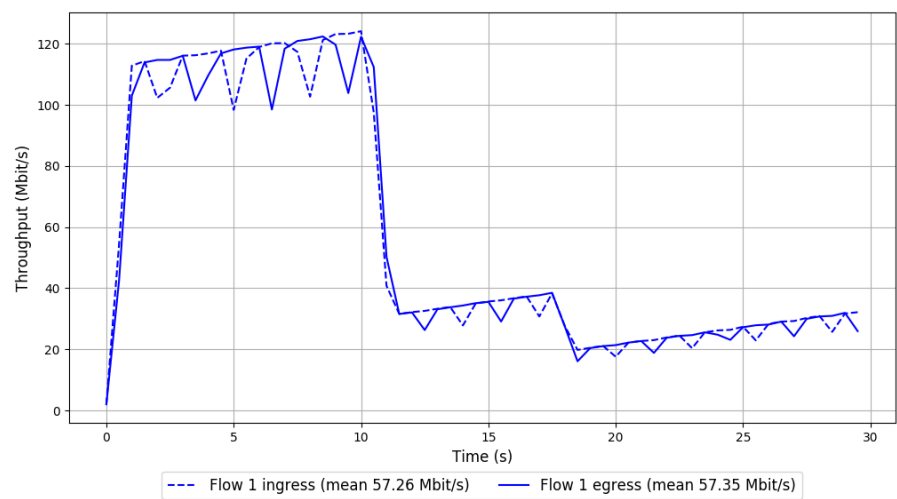
-- Flow 1:

Average throughput: 57.35 Mbit/s

95th percentile per-packet one-way delay: 51.056 ms

Loss rate: 0.21%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2017-08-17 01:13:59

End at: 2017-08-17 01:14:29

Below is generated by plot.py at 2017-08-17 03:51:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 5.88 Mbit/s

95th percentile per-packet one-way delay: 54.350 ms

Loss rate: 2.17%

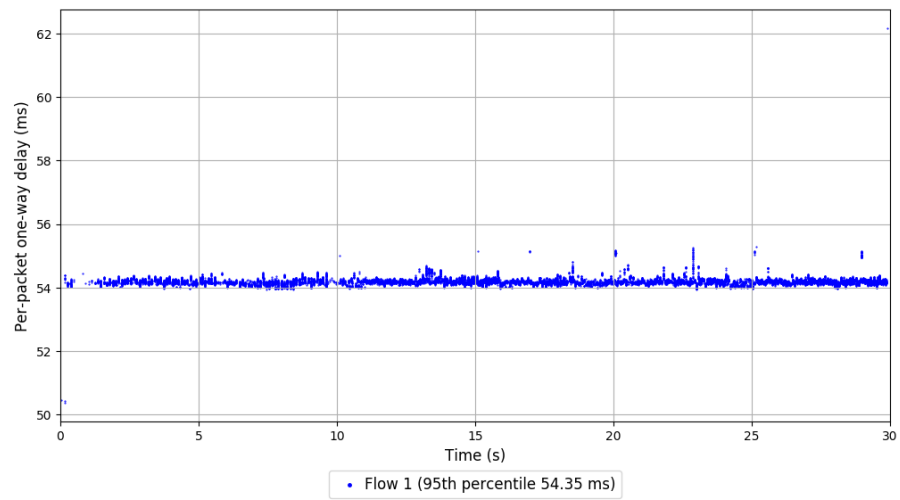
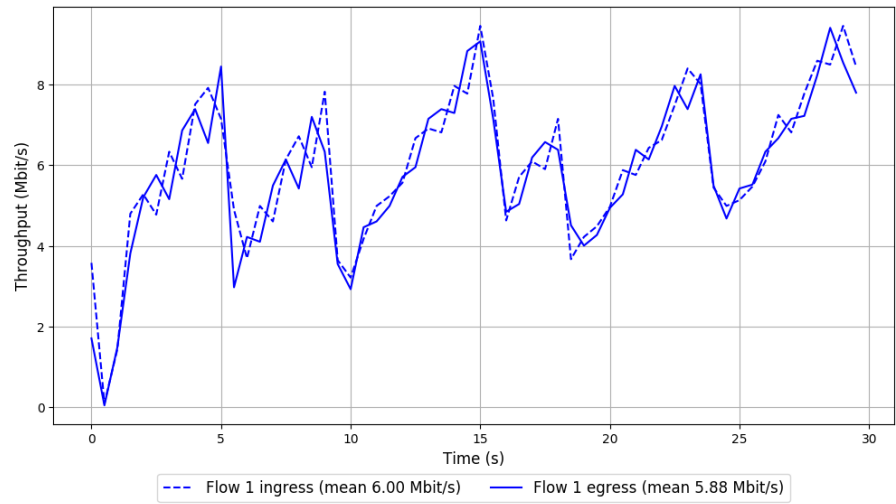
-- Flow 1:

Average throughput: 5.88 Mbit/s

95th percentile per-packet one-way delay: 54.350 ms

Loss rate: 2.17%

Run 10: Report of TCP Vegas — Data Link

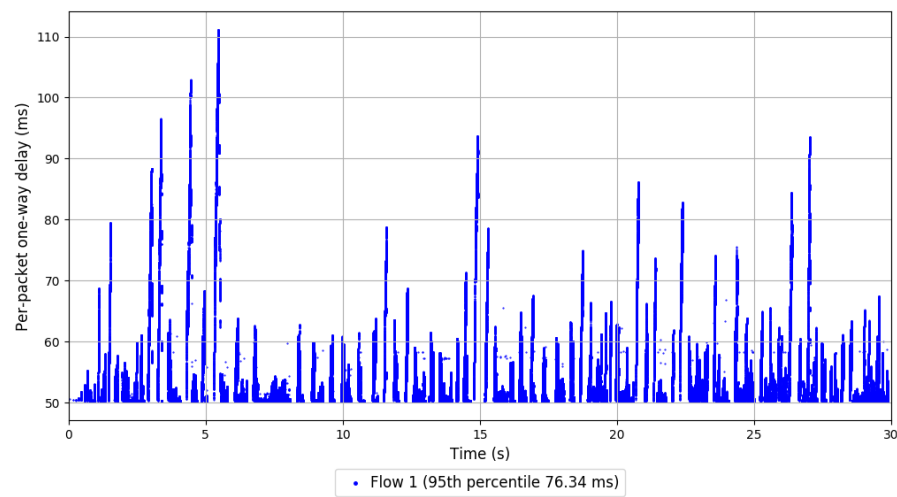
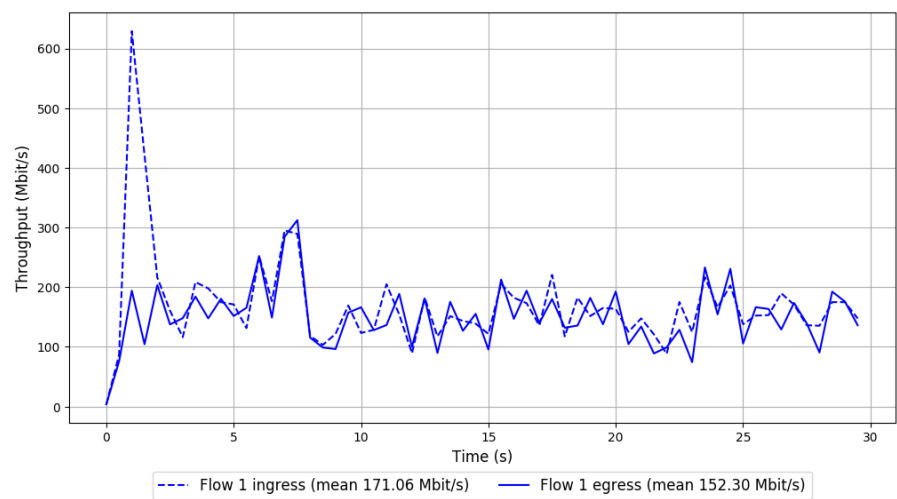


```
Run 1: Statistics of Verus

Start at: 2017-08-16 23:40:07
End at: 2017-08-16 23:40:37

# Below is generated by plot.py at 2017-08-17 03:51:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 152.30 Mbit/s
95th percentile per-packet one-way delay: 76.336 ms
Loss rate: 11.29%
-- Flow 1:
Average throughput: 152.30 Mbit/s
95th percentile per-packet one-way delay: 76.336 ms
Loss rate: 11.29%
```

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2017-08-16 23:50:11

End at: 2017-08-16 23:50:41

Below is generated by plot.py at 2017-08-17 03:51:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 139.12 Mbit/s

95th percentile per-packet one-way delay: 68.005 ms

Loss rate: 5.91%

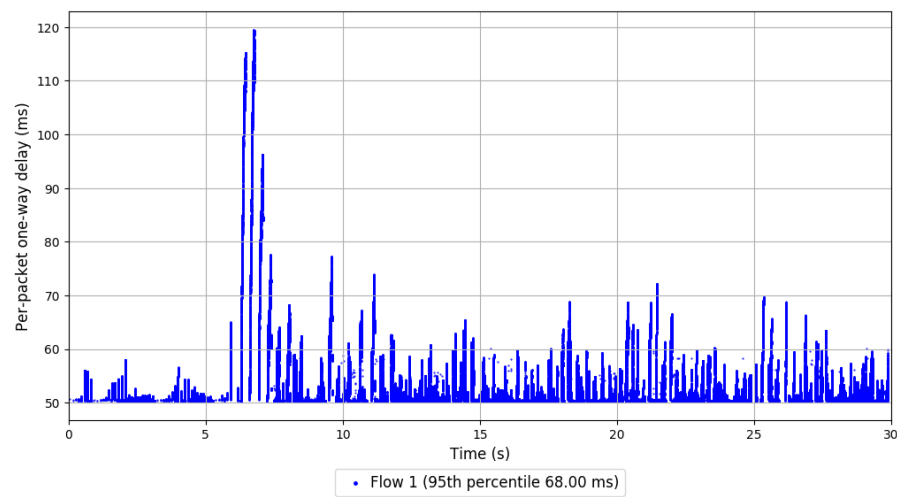
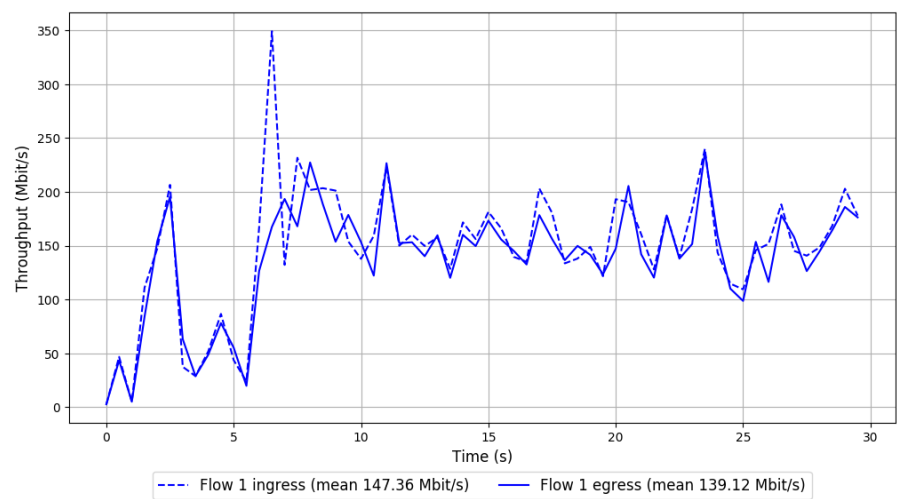
-- Flow 1:

Average throughput: 139.12 Mbit/s

95th percentile per-packet one-way delay: 68.005 ms

Loss rate: 5.91%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2017-08-17 00:00:57

End at: 2017-08-17 00:01:27

Below is generated by plot.py at 2017-08-17 03:51:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.42 Mbit/s

95th percentile per-packet one-way delay: 60.043 ms

Loss rate: 99.67%

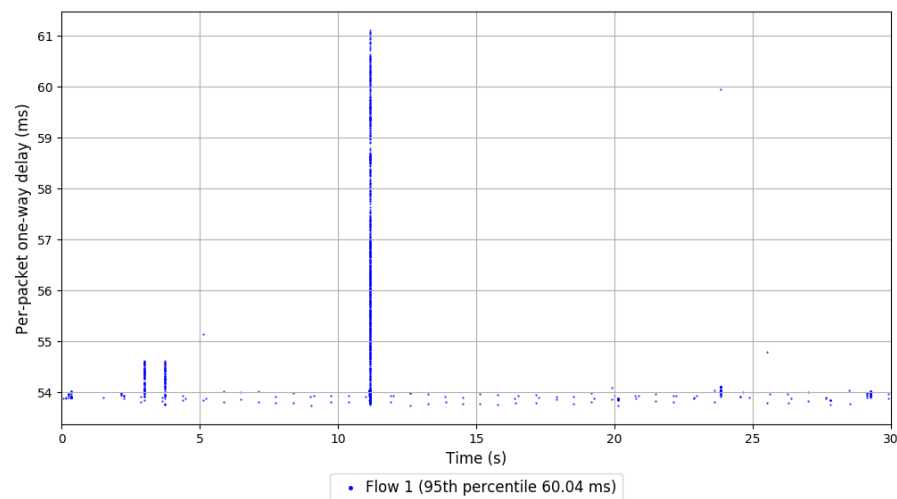
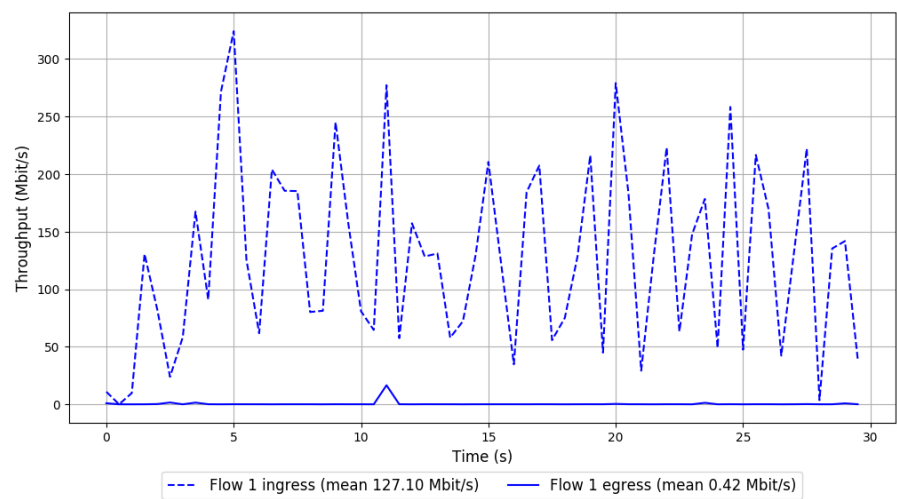
-- Flow 1:

Average throughput: 0.42 Mbit/s

95th percentile per-packet one-way delay: 60.043 ms

Loss rate: 99.67%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2017-08-17 00:11:23

End at: 2017-08-17 00:11:53

Below is generated by plot.py at 2017-08-17 03:51:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.17 Mbit/s

95th percentile per-packet one-way delay: 54.731 ms

Loss rate: 99.14%

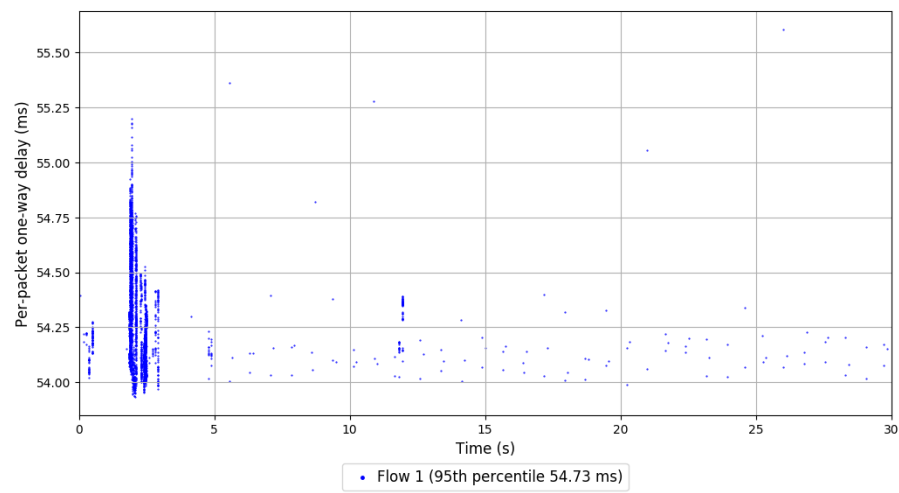
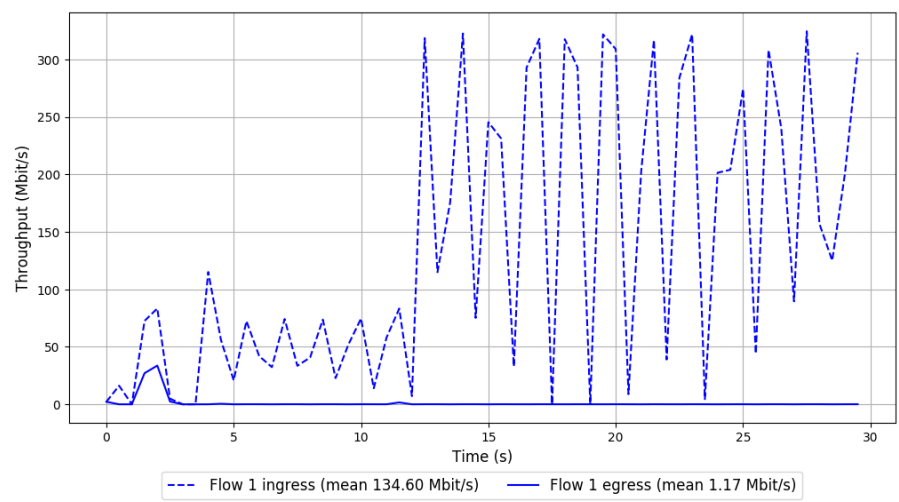
-- Flow 1:

Average throughput: 1.17 Mbit/s

95th percentile per-packet one-way delay: 54.731 ms

Loss rate: 99.14%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2017-08-17 00:21:32

End at: 2017-08-17 00:22:02

Below is generated by plot.py at 2017-08-17 03:51:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 10.43 Mbit/s

95th percentile per-packet one-way delay: 54.684 ms

Loss rate: 85.08%

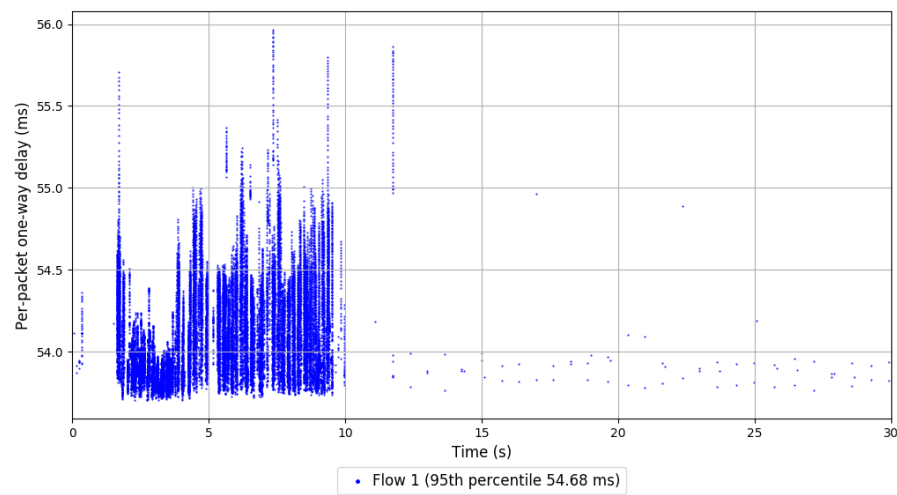
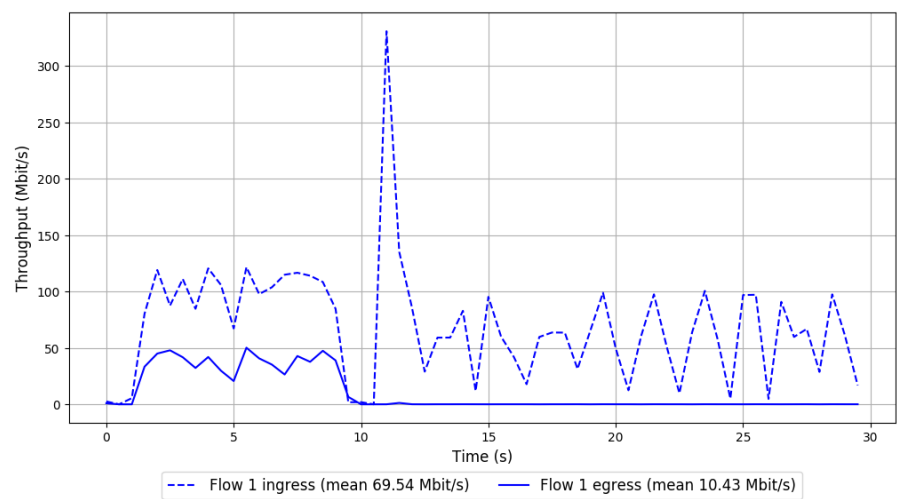
-- Flow 1:

Average throughput: 10.43 Mbit/s

95th percentile per-packet one-way delay: 54.684 ms

Loss rate: 85.08%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2017-08-17 00:31:47

End at: 2017-08-17 00:32:17

Below is generated by plot.py at 2017-08-17 03:51:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 33.52 Mbit/s

95th percentile per-packet one-way delay: 54.599 ms

Loss rate: 60.17%

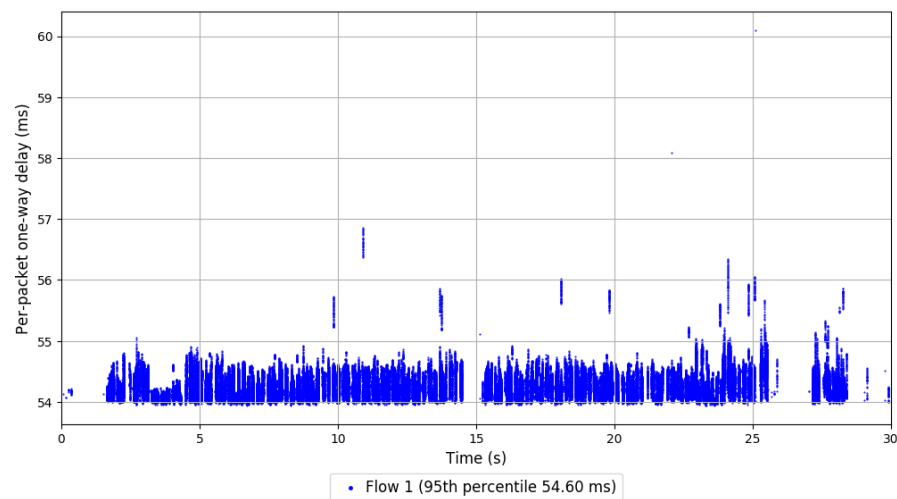
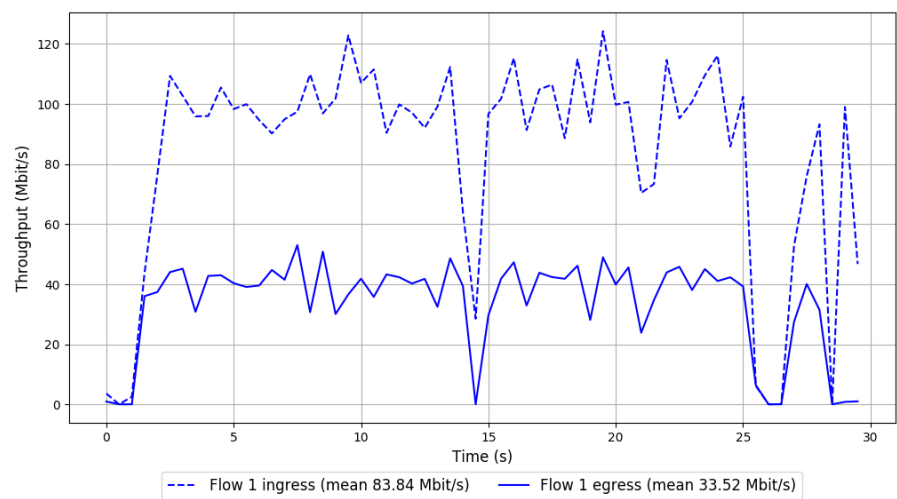
-- Flow 1:

Average throughput: 33.52 Mbit/s

95th percentile per-packet one-way delay: 54.599 ms

Loss rate: 60.17%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2017-08-17 00:41:25

End at: 2017-08-17 00:41:55

Below is generated by plot.py at 2017-08-17 03:52:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 155.87 Mbit/s

95th percentile per-packet one-way delay: 75.539 ms

Loss rate: 4.66%

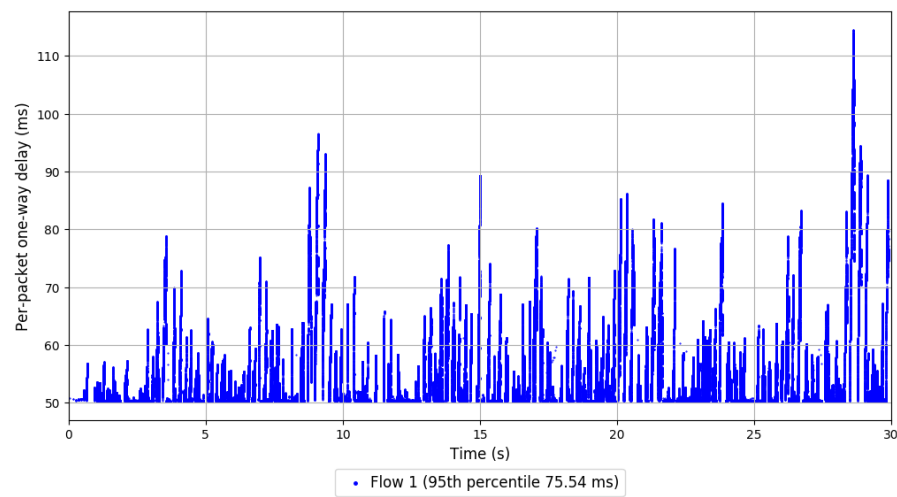
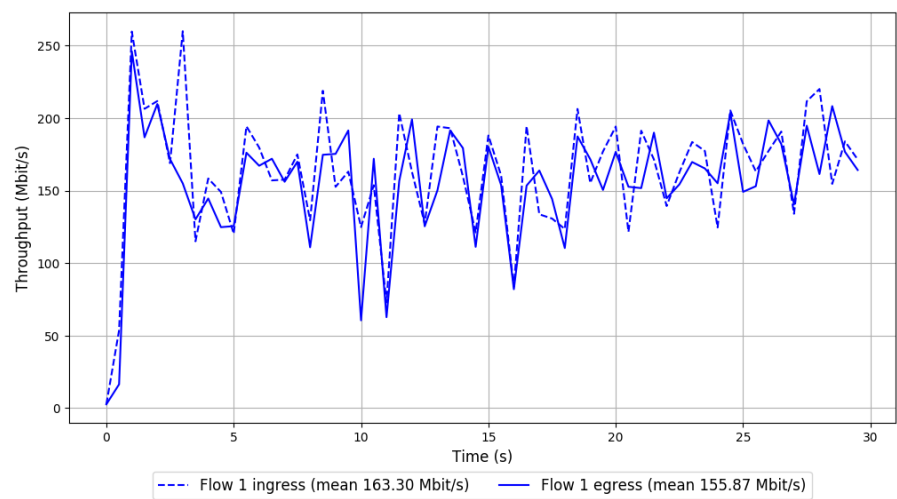
-- Flow 1:

Average throughput: 155.87 Mbit/s

95th percentile per-packet one-way delay: 75.539 ms

Loss rate: 4.66%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2017-08-17 00:51:30

End at: 2017-08-17 00:52:00

Below is generated by plot.py at 2017-08-17 03:52:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 151.23 Mbit/s

95th percentile per-packet one-way delay: 93.196 ms

Loss rate: 5.25%

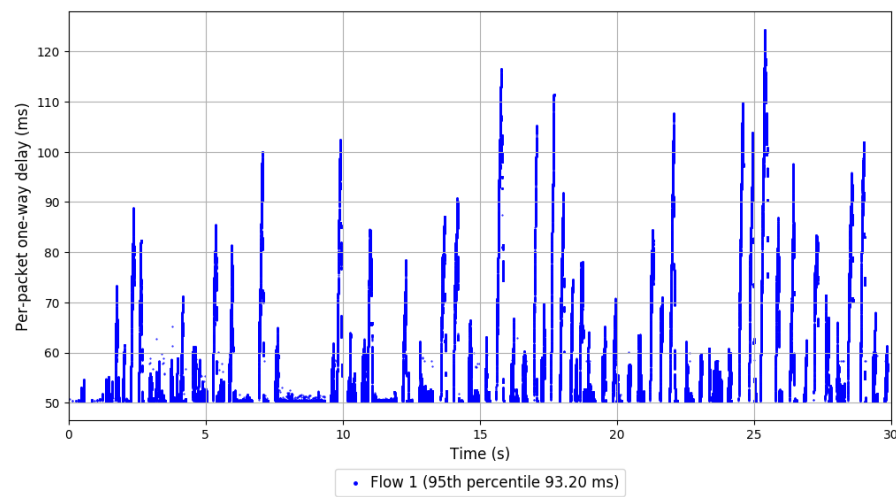
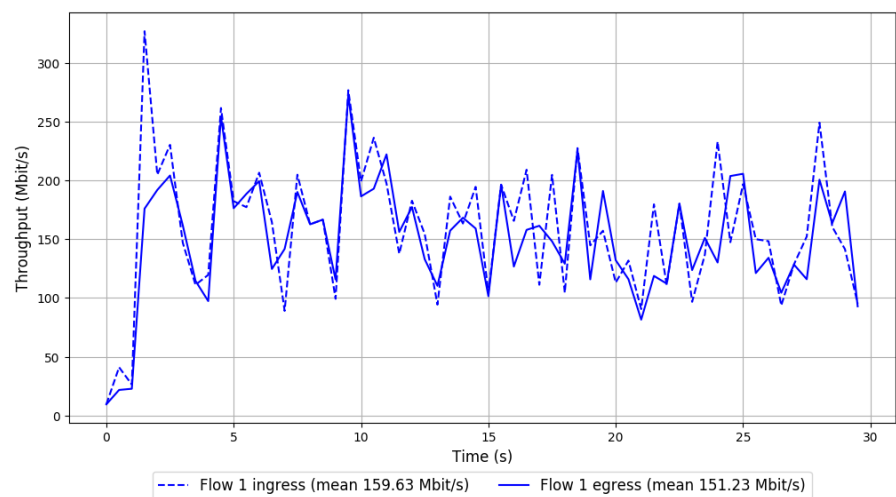
-- Flow 1:

Average throughput: 151.23 Mbit/s

95th percentile per-packet one-way delay: 93.196 ms

Loss rate: 5.25%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2017-08-17 01:01:50

End at: 2017-08-17 01:02:20

Below is generated by plot.py at 2017-08-17 03:52:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 123.95 Mbit/s

95th percentile per-packet one-way delay: 66.065 ms

Loss rate: 1.69%

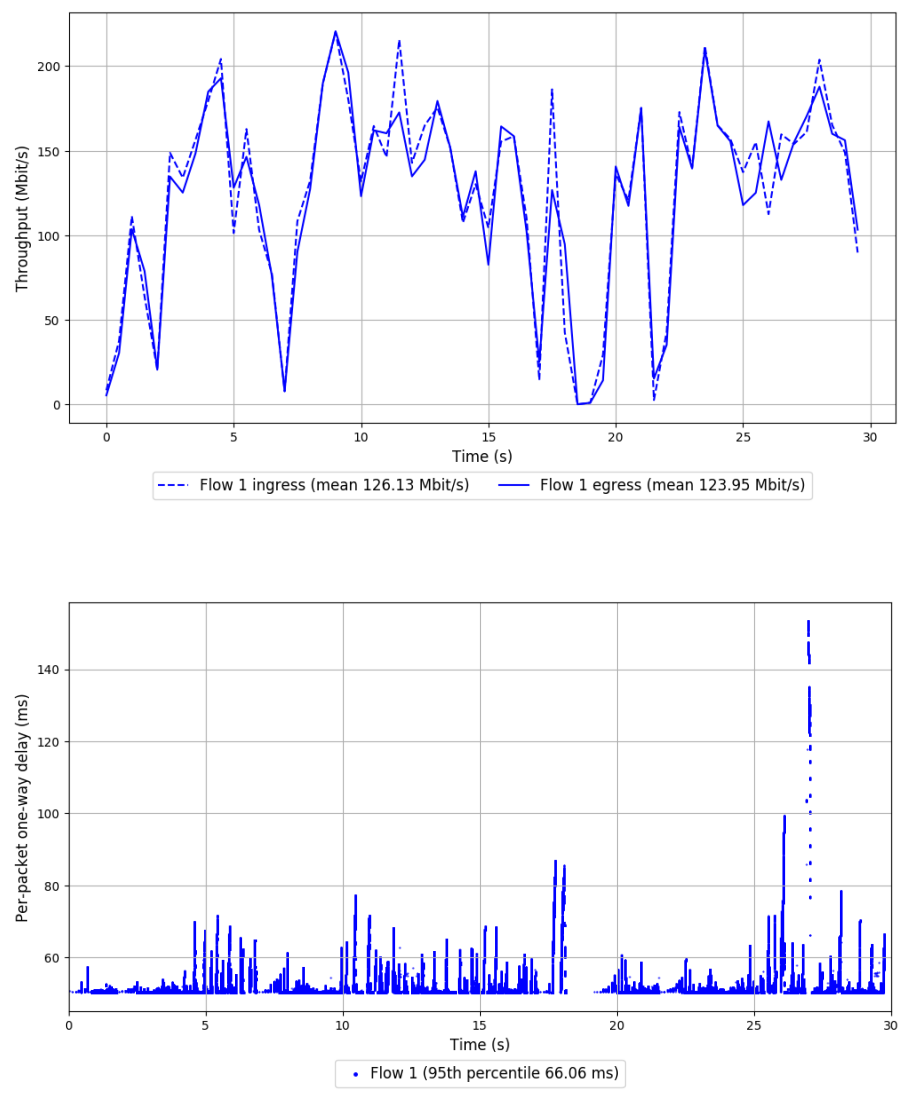
-- Flow 1:

Average throughput: 123.95 Mbit/s

95th percentile per-packet one-way delay: 66.065 ms

Loss rate: 1.69%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2017-08-17 01:11:58

End at: 2017-08-17 01:12:28

Below is generated by plot.py at 2017-08-17 03:52:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 143.63 Mbit/s

95th percentile per-packet one-way delay: 84.077 ms

Loss rate: 3.80%

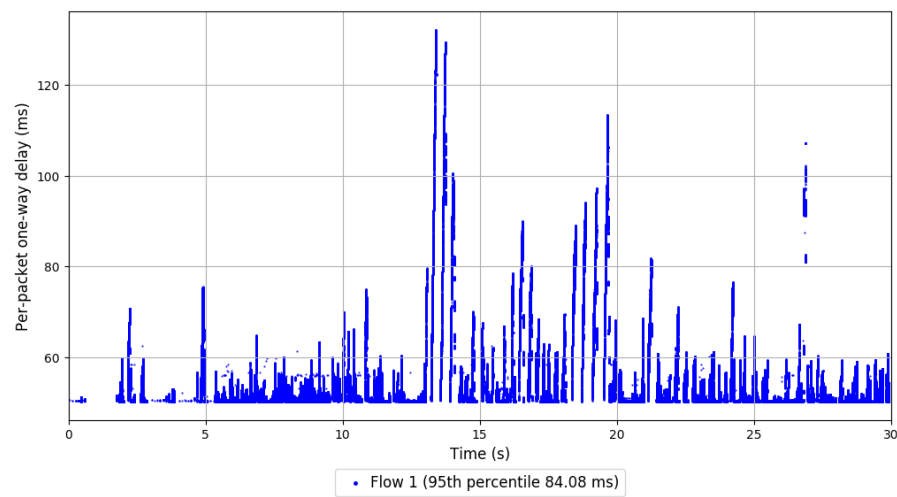
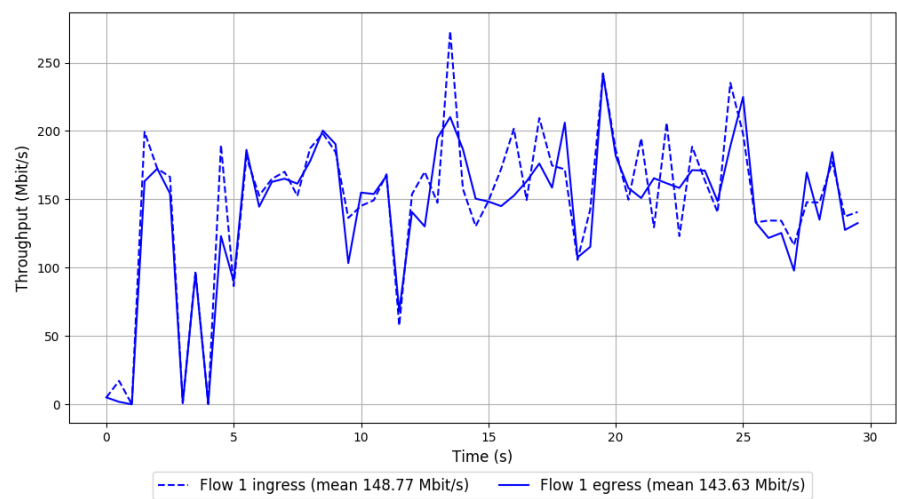
-- Flow 1:

Average throughput: 143.63 Mbit/s

95th percentile per-packet one-way delay: 84.077 ms

Loss rate: 3.80%

Run 10: Report of Verus — Data Link

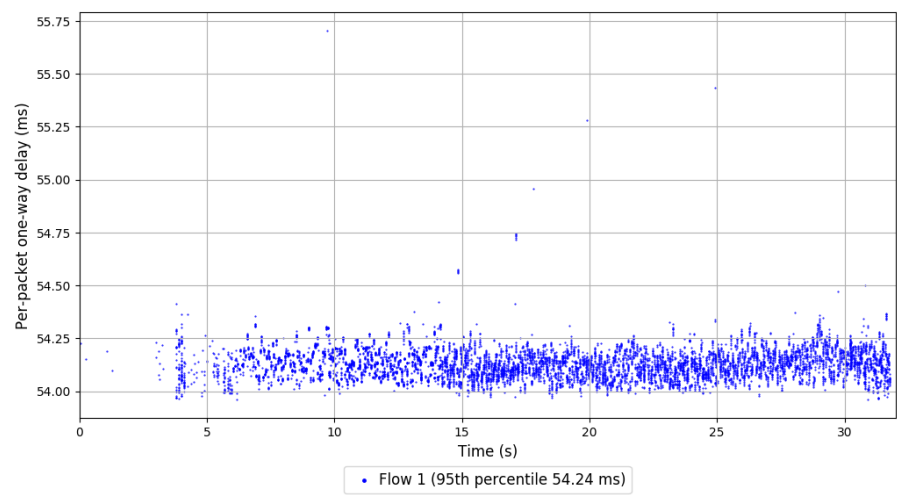
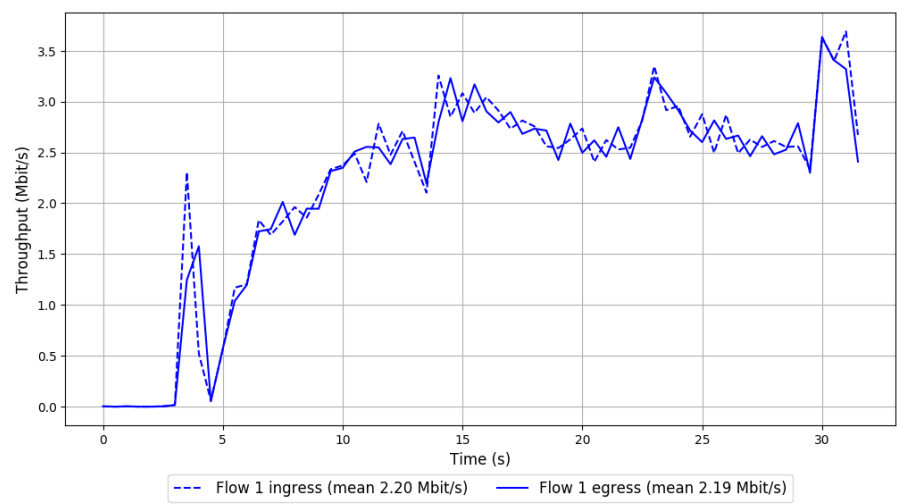


```
Run 1: Statistics of WebRTC media

Start at: 2017-08-16 23:40:55
End at: 2017-08-16 23:41:25

# Below is generated by plot.py at 2017-08-17 03:52:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.19 Mbit/s
95th percentile per-packet one-way delay: 54.237 ms
Loss rate: 0.63%
-- Flow 1:
Average throughput: 2.19 Mbit/s
95th percentile per-packet one-way delay: 54.237 ms
Loss rate: 0.63%
```


Run 1: Report of WebRTC media — Data Link

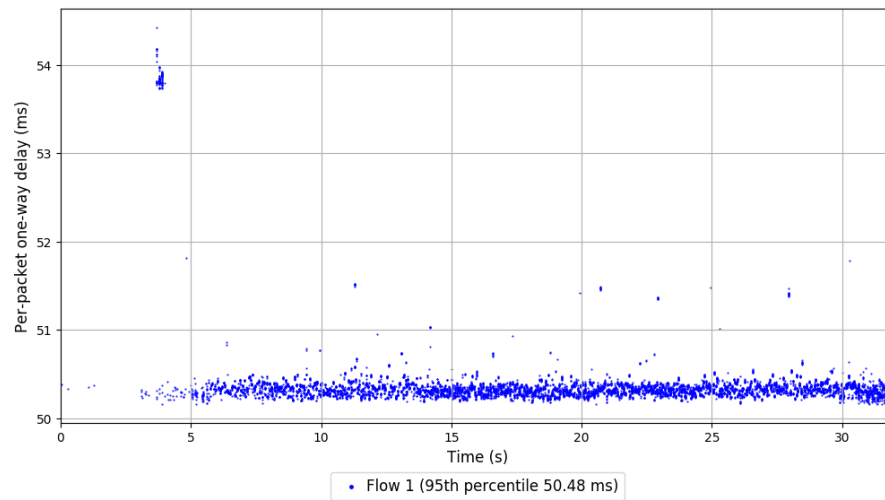
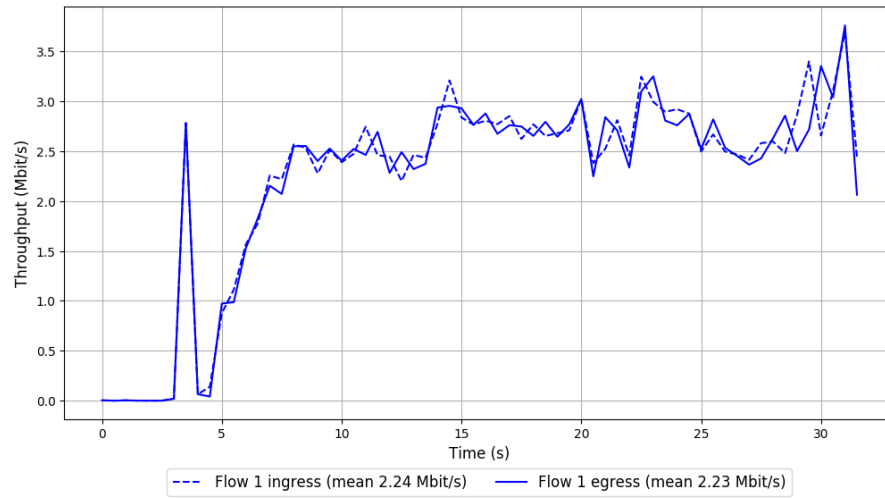


```
Run 2: Statistics of WebRTC media

Start at: 2017-08-16 23:50:58
End at: 2017-08-16 23:51:28

# Below is generated by plot.py at 2017-08-17 03:52:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.23 Mbit/s
95th percentile per-packet one-way delay: 50.479 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 2.23 Mbit/s
95th percentile per-packet one-way delay: 50.479 ms
Loss rate: 0.51%
```

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2017-08-17 00:01:38

End at: 2017-08-17 00:02:08

Below is generated by plot.py at 2017-08-17 03:52:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.26 Mbit/s

95th percentile per-packet one-way delay: 54.231 ms

Loss rate: 0.47%

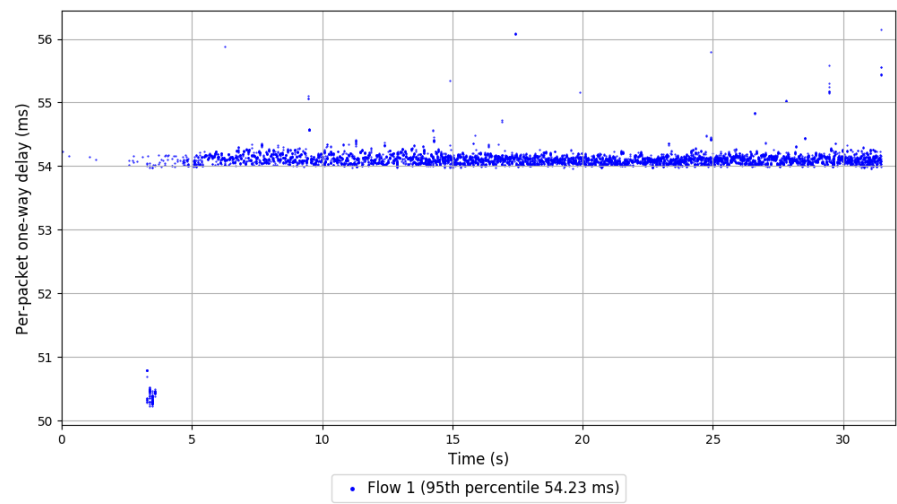
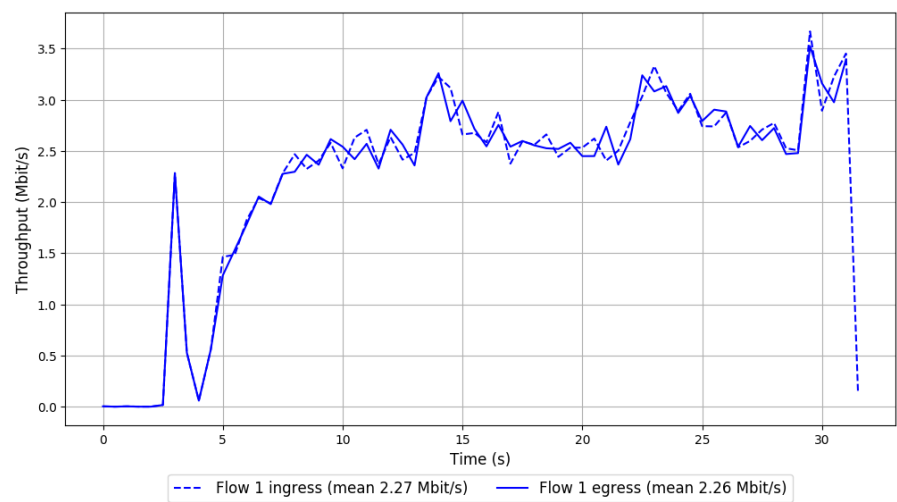
-- Flow 1:

Average throughput: 2.26 Mbit/s

95th percentile per-packet one-way delay: 54.231 ms

Loss rate: 0.47%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2017-08-17 00:12:04

End at: 2017-08-17 00:12:34

Below is generated by plot.py at 2017-08-17 03:52:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.21 Mbit/s

95th percentile per-packet one-way delay: 50.501 ms

Loss rate: 0.64%

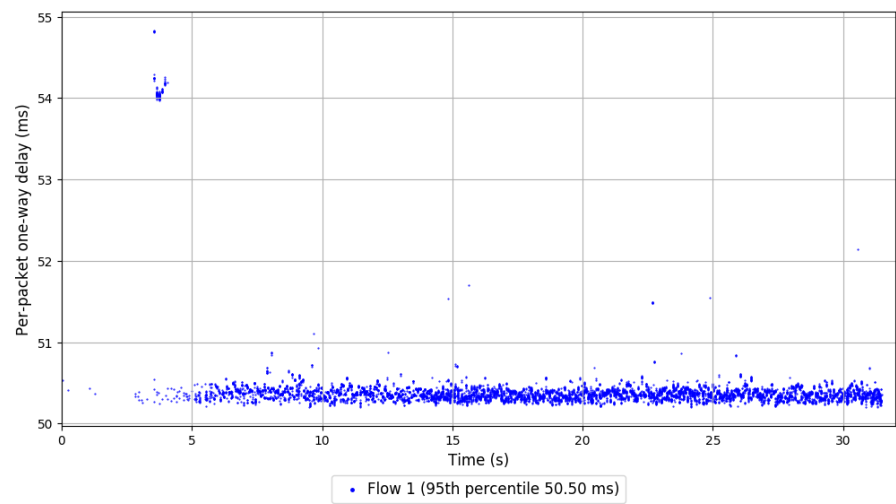
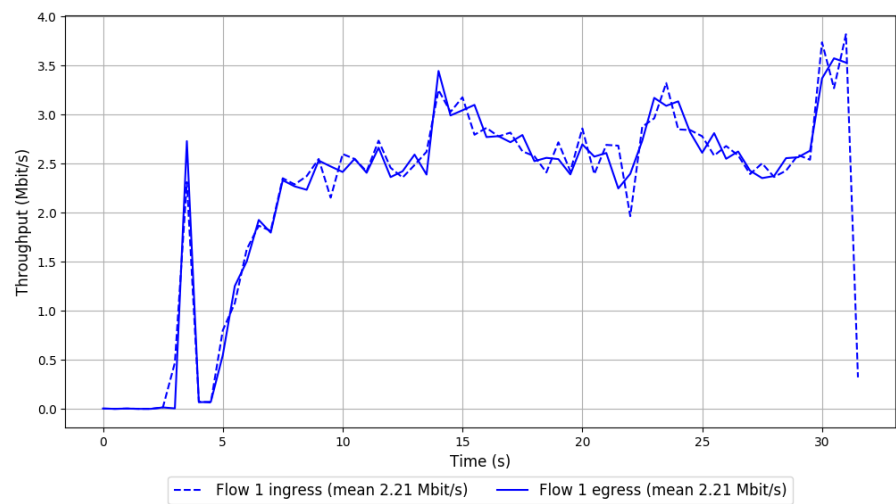
-- Flow 1:

Average throughput: 2.21 Mbit/s

95th percentile per-packet one-way delay: 50.501 ms

Loss rate: 0.64%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2017-08-17 00:22:11

End at: 2017-08-17 00:22:41

Below is generated by plot.py at 2017-08-17 03:52:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.23 Mbit/s

95th percentile per-packet one-way delay: 50.481 ms

Loss rate: 0.56%

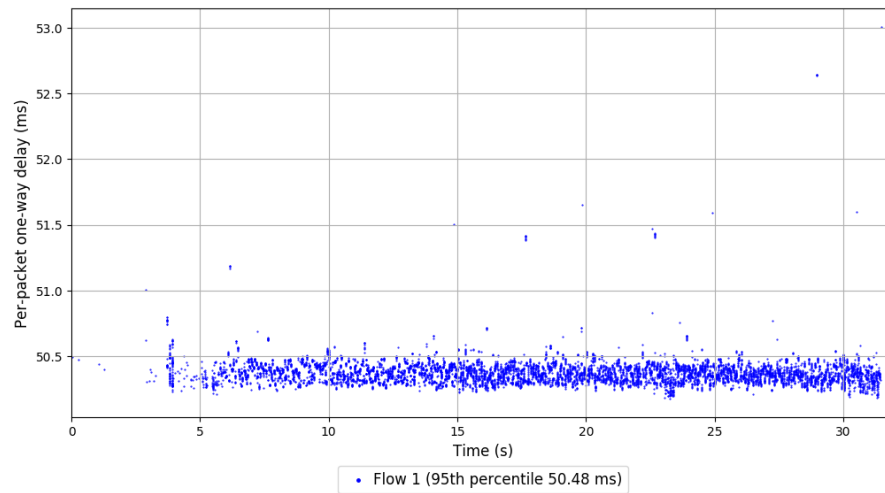
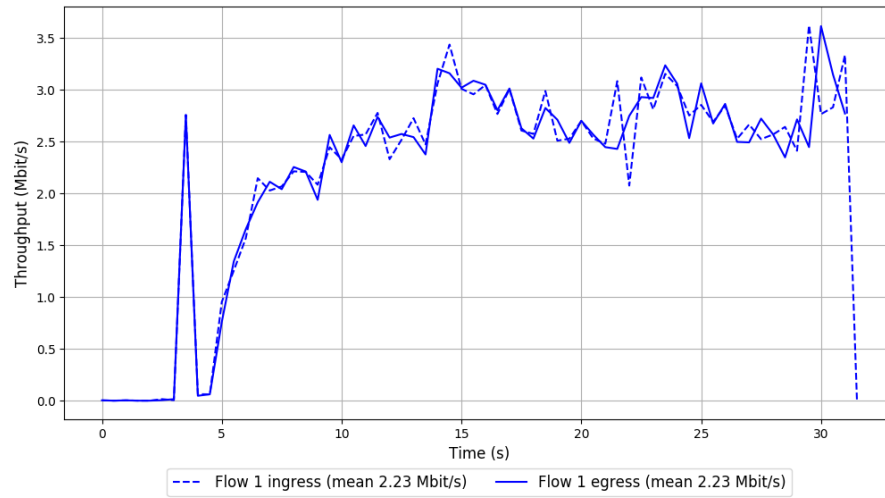
-- Flow 1:

Average throughput: 2.23 Mbit/s

95th percentile per-packet one-way delay: 50.481 ms

Loss rate: 0.56%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2017-08-17 00:32:28

End at: 2017-08-17 00:32:58

Below is generated by plot.py at 2017-08-17 03:52:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.30 Mbit/s

95th percentile per-packet one-way delay: 54.282 ms

Loss rate: 0.37%

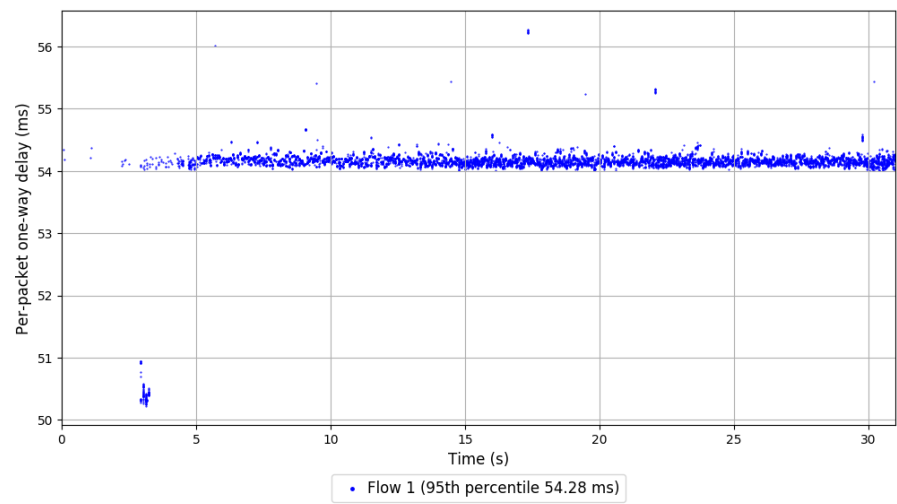
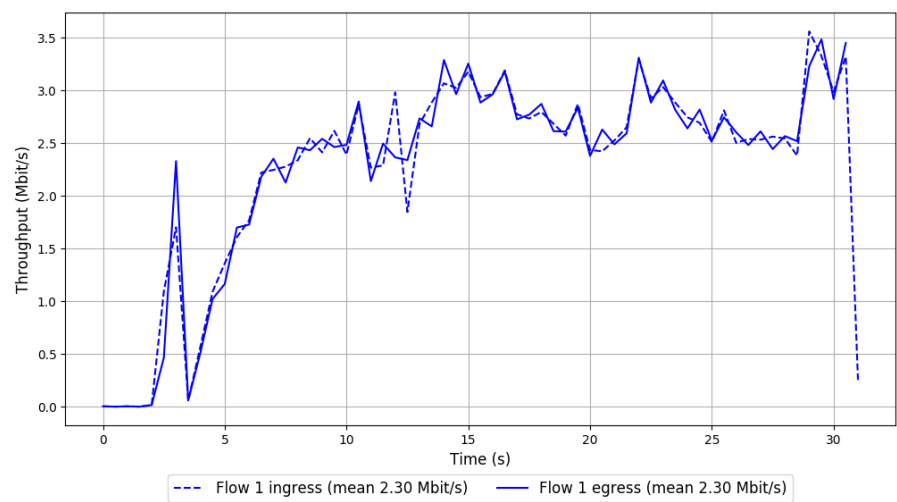
-- Flow 1:

Average throughput: 2.30 Mbit/s

95th percentile per-packet one-way delay: 54.282 ms

Loss rate: 0.37%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2017-08-17 00:42:13

End at: 2017-08-17 00:42:43

Below is generated by plot.py at 2017-08-17 03:52:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.25 Mbit/s

95th percentile per-packet one-way delay: 53.304 ms

Loss rate: 0.75%

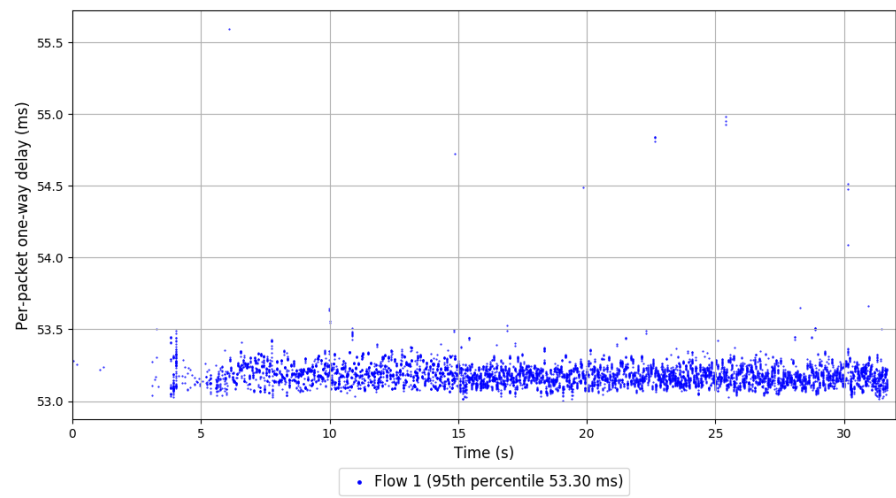
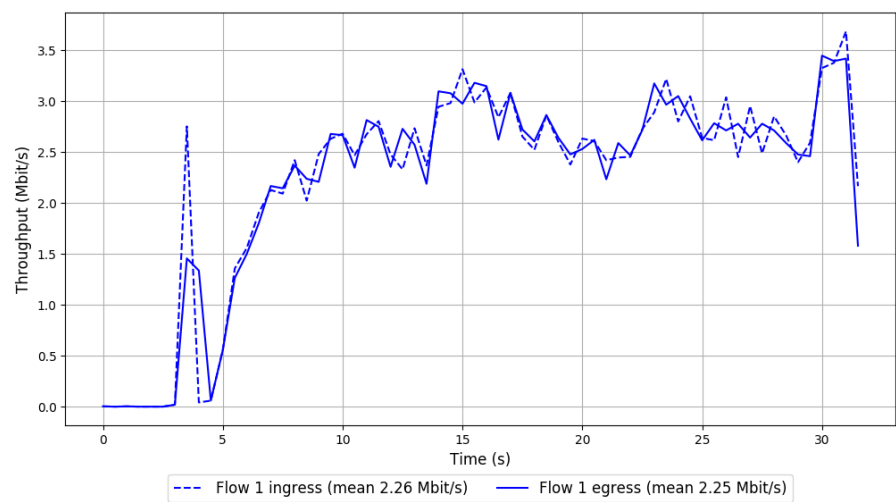
-- Flow 1:

Average throughput: 2.25 Mbit/s

95th percentile per-packet one-way delay: 53.304 ms

Loss rate: 0.75%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2017-08-17 00:52:17

End at: 2017-08-17 00:52:47

Below is generated by plot.py at 2017-08-17 03:52:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.21 Mbit/s

95th percentile per-packet one-way delay: 50.475 ms

Loss rate: 0.53%

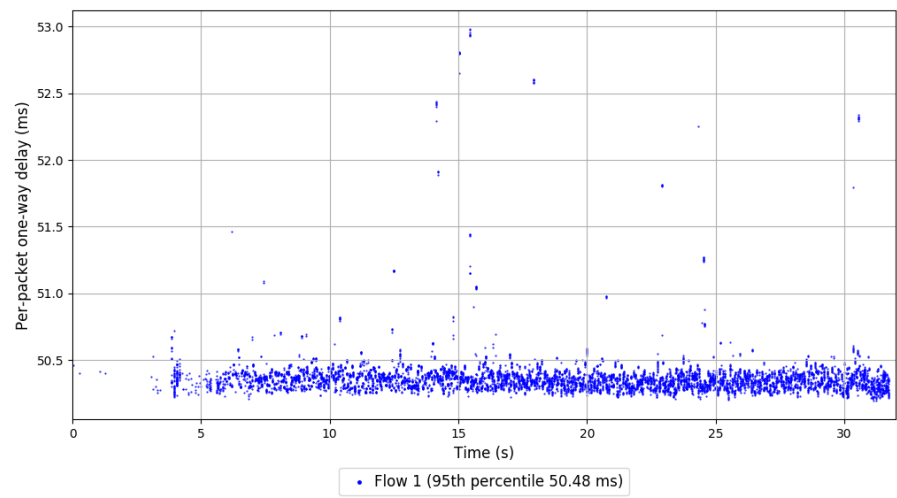
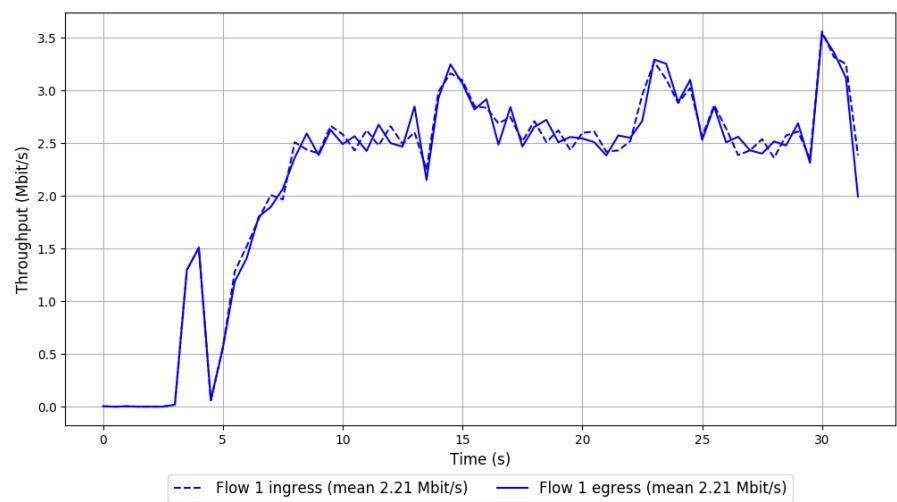
-- Flow 1:

Average throughput: 2.21 Mbit/s

95th percentile per-packet one-way delay: 50.475 ms

Loss rate: 0.53%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2017-08-17 01:02:36

End at: 2017-08-17 01:03:06

Below is generated by plot.py at 2017-08-17 03:52:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.25 Mbit/s

95th percentile per-packet one-way delay: 54.033 ms

Loss rate: 0.52%

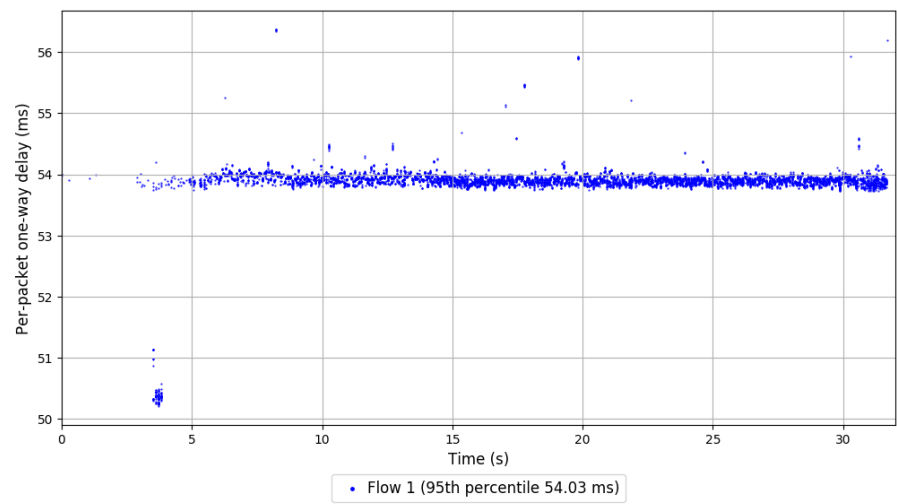
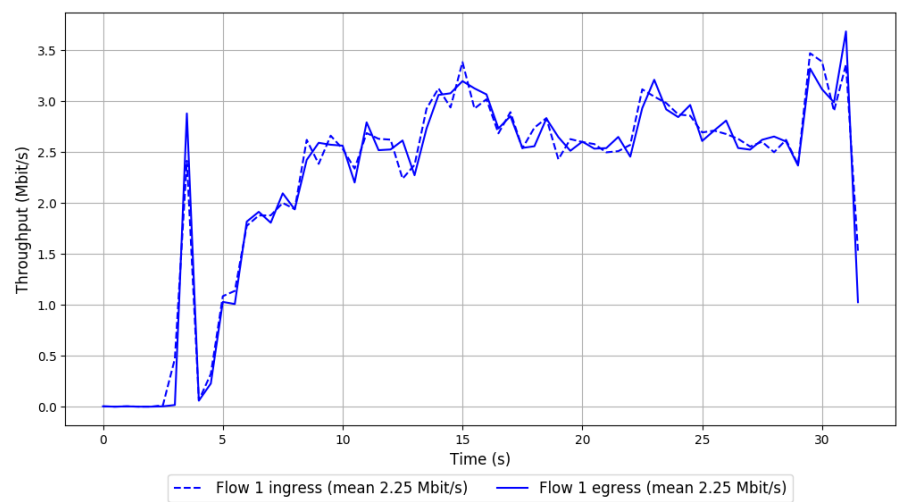
-- Flow 1:

Average throughput: 2.25 Mbit/s

95th percentile per-packet one-way delay: 54.033 ms

Loss rate: 0.52%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2017-08-17 01:12:45

End at: 2017-08-17 01:13:15

Below is generated by plot.py at 2017-08-17 03:52:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.24 Mbit/s

95th percentile per-packet one-way delay: 50.511 ms

Loss rate: 0.53%

-- Flow 1:

Average throughput: 2.24 Mbit/s

95th percentile per-packet one-way delay: 50.511 ms

Loss rate: 0.53%

Run 10: Report of WebRTC media — Data Link

